CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 23, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

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RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALASKA CENTRAL.—This road will be sold at public auction by the U. S. Marshal at Valdes, Alaska, on Oct. 9. It was the original intention to have it extended from Seward to Tanana River, about 460 miles. About 50 miles north from Seward was put in operation in 1907 and there was about 60 miles under construction, while contracts were let for 185 additional miles. The par value of the stock was $20, of which there was $30,000,000 authorized, $27,500,000 prefered and $2,500,000 common stock. The amount issued was $5,960,000, of which $4,000,000 was common stock. O. G. Labree, Spokane, Wash., is Receiver.

BROOKVILLE & MAHONING.—The contract for building the road between Knoxdale, Jefferson County and Mahoning at the mouth of the Mahoning Creek, on the Allegheny River, Armstrong County, a distance of 36 miles, has been let to JAMES H. CORBETT, formerly of Punxsutawney, Pa., but now of Moncton, N. B., who is at present finishing a contract for the Grand Trunk Pacific. The entire cost of the new road is estimated at about $2,500,000. It includes the masonry for a bridge over the Allegheny River, six tunnels and four viaducts which are from 600 to 1,500 ft. in length. Work will be started at once. The headquarters of the construction company will be in the Gilpin Bldg., Kittaning. The road will be operated as a part of the Pittsburg, Shawmut & Northern R. R. Co., of which William Barclay Parsons, 60 Wall St., New York, is Consult. Engr. Noted on Sept. 2.

CHICAGO & NORTHWESTERN.—Company has completed its final survey for the projecting line from Lindwurm north of Milkauwee to Clyman in Dodge County. The Milwaukee, Sparta & Northwestern R. R. Co., noted on Aug. 19 as having been incorporated for the purpose of building this line, has filed with the State Railroad Commission an application for a certificate of convenience to build the road. This application is accompanied by profile maps of the location surveyed and it shows the route of the line in Wisconsin. The route is as follows: From Lindwurm through Wauwatosa, West Allis and the towns of Greenfield and Granville, in Milwaukee County; through the towns of Menomonee, Lisbon, Merton and Oconomowoc, in Waukesha County, and through the towns of Ashippun and Emmet, in Dodge County, to Clyman. It is a matter of temporary convenience that Clyman is fixed as the western terminus of the line, and it is stated that the resolve of the company is to build an entirely new line from Lindwurm to Necedah by way of Clyman. The Milwaukee, Sparta & Northwestern also will build a cut-off between Sparta and Wyeville, which is a point where the Necedah branch joins the main points of the Omaha road, a part of the Northwestern system. This cut-off, in connection with the construction of the line from Lindwurm to Necedah, will place Milwaukee on a trunk line that extends from Chicago to La Crosse, southern Minnesota, South Dakota and parts of North Dakota. Through passenger trains between Chicago and these far western points will, under this plan, run through Milwaukee. E. C. Carter, Chicago, Ill., is Ch. Engr., C. & N. W. Ry.

COSHOCTON, OTSEGO & WESTERN.—Incorporated in Cleveland, Ohio, with a capital of $10,000. The railroad is to connect with the Wheeling & Lake Erie near Coshocton and is to be 118 miles in length, running in a westerly direction, tapping coal fields and agricultural, grazing and manufacturing districts. The incorporators are J. M. Drake, C. L. Cassingham, Lake Ave. and West 110th St., J. W. Warwick, P. G. Joyce and W. B. Kennedy, all of Cleveland. The headquarters of the road will be in Cleveland.

DELAWARE & EASTERN.—A bond issue of $4,570,000 has been authorized by the Public Service Commission of the State of New York. The Delaware & Eastern Ry. Co. was incorporated May 13, 1907, and made application to the Board of Railroad Commissioners of the State of New York for charters to construct a line extending from the Pennsylvania border, at Hancock, N. Y., on the Erie R. R., through the valleys of the Delaware and Schoharie Rivers, to Schenectady, N. Y., where connection is made with the Boston & Maine, New York Central and the Delaware & Hudson systems. On the same date the Delaware & Eastern Ry. Co. leased the property of the Delaware & Eastern R. R. Co., which had already constructed and in operation 50 miles of railroad extending through the valley of the East Branch of the Delaware River, in Delaware County, State of New York, from the station of East Branch, on the New York, Ontario & Western, to Arkville on the Ulster & Delaware. Subsequently the Delaware & Eastern Ry., leased the property of the Middleburgh & Schoharie extending from Middleburgh, in Schoharie County, N. Y., to Schoharie, the county seat. The bonds offered are for the purpose of extending the railway on the north to the Boston & Maine at Schenectady and on the south to the Erie R. R. at Hancock, N. Y. The property, when completed, will comprise 153.93 miles of railroad, exclusive of sidings, 50 miles of which are already operating. This property is situated 134 miles from the City of New York, and traverses the State of New York directly through its center, from the Pennsylvania border on the south to the City of Schenectady on the east, which is situated 17 miles west of Albany. Its western terminals connect with the anthracite and bituminous coal carrying roads leading into the coal regions of Pennsylvania, and its eastern terminus connects with the Boston & Maine system. The line also will connect with the Erie, the New York, Ontario & Western, the Ulster & Delaware, the Delaware & Hudson, the West Shore and the New York Central. It will terminate on the Barge Canal now being constructed between Albany and Buffalo, which will give tidewater facilities. The average grade between Hancock and Schenectady on the Delaware & Eastern is 25 ft. to the mile. The maximum grade on the main line of that part now operating is 26 ft. per mile, and the average grade 10 ft. per mile. By following the valley of the Delaware and Schoharie Rivers the road will have a water grade line. The directors are: F. F. Searing, 7 Wall St., New York; J. L. Greatsinger; Earl Furman, Schenectady, N. Y.; Russell Murray, 100 Grand St., New York; H. A. V. Post, 111 Broadway, New York; H. M. George, 7 Wall St., New York; E. J. Welch, 76 William St., New York; Willis T. Hanson, Schenectady, N. Y.; Charles Tremain; John W. Griggs, 27 Pine St., New York; Edward Kelly, Wharton, N. J.; I. W. Searing, Dover, N. J.; James L. Hurd, Dover, N. J.; George P. Fall, 76 William St., New York.

FORT WORTH, MINERAL WELLS & WESTERN.—Organized, with principal offices at Fort Worth, Tex., for the purpose of building a railroad between Fort Worth and Roswell, N. Mex., a distance of about 375 miles. Paul Hurley and L. C. Cole, of Fort Worth, are among the incorporators. It is planned by the company to first build the line between Fort Worth and Mineral Wells, 60 miles, and to operate that division as an interurban electric line.

LOUISVILLE & NASHVILLE.—See item under Buildings.

MILWAUKEE, SPARTA & NORTHWESTERN.—See Chicago & Northwestern.

MINNEAPOLIS & ST. LOUIS.—Surveys are being made through the northwestern part of South Dakota from the present western terminus at Le Beau, S. Dak. The present plans of the railroad include an extension west in the vicinity of Vale in Butte County and into the coal fields in the same county. E. Hawley is Pres., New York; L. F. Day, Vice-Pres., Minneapolis; M. B. Cutter, Gen. Mgr., Minneapolis, and R. G. Kenly, Ch. Engr., Minneapolis.

MISSOURI, OKLAHOMA & GULF.—Company is building south toward Denison, Tex., and is contemplating the construction northward from Wagoner, Okla., to Joplin, Mo., and a conference between the roads' officials and business men of Joplin is to be held soon. The line is in operation from Wagoner south almost to the Texas state line. It is being built under the direction of W. B. Kenefick, Bryan Bldg., Kansas City, Mo., and is one of the lines originally promoted by Charles N. Haskell, Governor of Oklahoma. E. J. Noonan, Calvin, Okla., is Ch. Engr.

MISSOURI RIVER, CARROLLTON & NORTHWESTERN.—We are officially advised that the preliminary survey has been completed for this proposed line which is to run from the Missouri River through Carrollton, Mo., and thence in a northwestern direction, and will be about 60 miles in length. It is proposed to connect with the Milwaukee, Burlington, Santa Fe and Wabash systems, Herndon Ely, Carrollton, Mo., is Pres.; L. B. Ely, St. Louis, Mo., Vice-Pres.; Peter L. Trotter, Carrollton, Second Vice-Pres. and Treas.; W. P. Painter, Carrollton, Secy. and Ch. Engr. Noted on July 8.

NORTH COAST.—About 55 consecutive miles of right-of-way from Cheney, Wash., on the Spokane-Walla Walla line to the Snake River crossing have been surveyed and the contracts will be let as soon as the Spokane franchise and complications with the Northern Pacific and Spokane, Portland & Seattle are settled, it is announced by officials of the road. Surveyors are camped adjoining the city of Walla Walla, Wash., and are making the final surveys for the road between Snake River and Walla Walla. From Cheney it is almost an airline survey running southwesterly to a point on the Chicago, Milwaukee & Puget Sound, a few miles east of Cow Creek, where a connection with that line will be made. After reaching the Palouse Canyon, which the grade will follow for some distance, the completion of the line will cost $200,000 a mile. Leaving the Chicago, Milwaukee & Puget Sound, the

road will follow Cow Creek through Palouse Canyon to a point eight miles above Snake River and eight miles below Riparia, where it will cross the Snake River over a steel bridge 265 ft. high and 3,000 ft. in length. At this point the North Coast will cross the Spokane, Portland & Seattle, paralleling the north bank of the Snake River and the Oregon R. R. & Navigation route on the south bank of the river. The crossing will be 250 ft. above both these roads. To conform to the minimum grades and curves which the North Coast is establishing, a number of tunnels will be bored through the rock walls of the canyon. Noted on Sept. 9.

PITTSBURG, SHAWMUT & NORTHERN.—See Brookville & Mahoning.

POCAHONTAS CONNECTING RY.—A charter has been issued to the company to operate in Raleigh County between Cirtsville and Jarroids Valley, W. Va. Capital stock, $200,000. The incorporators are John G. Reading and Robert F. Allen, Williamsport, Pa.; O. P. Fitzgerald, V. L. Black and G. S. Couch, Jr., of Charleston, W. Va. The proposed road will form a connecting link between the Virginian road at Cirtsville and the Cabin Creek branch of the Chesapeake & Ohio, probably at Lawton, the course being down Clear Fork of Coal River from the former to the latter point. It will be about 20 miles in length.

RIO GRANDE, SIERRA MADRE & PACIFIC.—Dr. F. S. Pearson, one of the party who recently purchased the Rio Grande, Sierra Madre & Pacific and gained control of the Chihuahua & Pacific, has announced that the two roads would be extended from El Paso, Tex., to the Pacific Ocean, with an outlet at the mouth of Rio Mayo and the Gulf of California, in Sonora, Mexico, the project to involve $15,000,000. Surveys will begin in 30 days.

TENNESSEE R. R.—Incorporated in Tennessee to develop about 5,000 acres of hard coal lands, the property of the Tennessee River Coal Co. The company will build a line in Marion County, Tenn., down Kings Cove to the Southern Ry. and the Nashville, Chattanooga & St. Louis at Copenhagen, thence to the Tennessee River, about eight miles. A. Conover is Pres.; I. W. Crabtree, Secy., both of Winchester, Tenn. G. H. Crozier will be Engr. in charge of the construction and is Gen. Mgr. and Superintendent of the mines; Louis Earle, of New York, is Pres. of the coal company; E. C. Kerr, Secy., and R. F. Kilpatrick, Gen. Mgr.

ELECTRIC RAILWAYS.

ALBANY, N. Y.—John P. Kelley, of Troy, N. Y., Referee, sold the properties of the Albany & Hudson R. R. at public auction on Sept. 8 in Hudson. The purchaser was Irving M. Day, 33 Wall St., New York, Secy. of the Reorganization Committee, and the price paid was $50,000. Mr. Day was the only bidder.

The Albany Southern R. R. Co., which was incorporated on Sept. 14 with the Secretary of State, is a reorganization of the Albany & Hudson Railroad (mentioned above), the third-rail electric line between Albany and Hudson, which went into a receiver's hands some months ago and whose properties were sold under mortgage foreclosure last week. The new company has a capital of $3,475,000, of which $2,100,000 is preferred and $1,375,000 common stock. The company's principal office is in Rensselaer. The Directors are W. R. Gross, H. A. C. Smith, Chas. H. Werner, 3 South William St.; A. M. Young, Irvin M. Day, 33 Wall St.; L. B. Grant, C. M. Congdon, of New York; C. L. Rossiter, of Brooklyn, and Myron T. Herrick, of Cleveland, Ohio.

SOUTH AMBOY, N. J.—The City Council has granted to the Jersey Central Traction Co., of Keyport, N. J., a franchise to build its proposed extension through South Amboy to Perth Amboy. George I. Brown, Keyport, is Gen. Mgr.

LEBANON, PA.—The Ephrata & Lebanon St. Ry. Co. has secured all right-of-way for its proposed electric railway from Ephrata to Lebanon, a distance of 22 miles. The plan is to operate gasoline motor cars. The company will apply for a charter within a few days. S. D. Erb, Ephrata, is Pres., and F. H. Shaw, Lancaster, Consult. Engr.

WILMINGTON, DEL.—We are officially advised that the West Chester & Wilmington Electric Ry. Co., which is to construct a line 17 miles in length between the two cities, will begin operations soon. Surveys have been made and right-of-way has been secured. The road will serve a population of 125,000. St. George H. Cooke, Real Estate Trust Bldg., Philadelphia, is Engr., and Sydney Kenney, Land Title Bldg., Philadelphia, is interested.

NEWPORT NEWS, VA.—The Newport News & Yorktown Ry. Co. has been incorporated to build a railway from Newport News to Yorktown, a distance of 20 miles. Capital stock, $25,000. The officers are: W. T. Chapin, Newport News, Pres.; Alvah H. Martin, Norfolk County, Vice-Pres., and C. P. Jones, Secy. and Treas.

FAIRMONT, W. VA.—The Fairmont & Northern Traction Co. has completed its organization and has elected the following officers: S. L. Watson, Pres.; C. E. Watson, Vice-Pres.; Walton Miller, Secy. and Treas., and S. B. Miller, Ch. Engr. The company will start the construction of an electric railway from Fairmont to Fairview soon.

CHARLESTON, W. VA.—The Kanawha & Ohio Valley Traction Co. has applied to the City Council for a franchise to extend its street railway system on Russell St., so as to connect its present lines on the West Side with the bridge of the Kanawha Bridge & Terminal Co., at Seventh St. J. C. Rockwell, Charleston, is Supt. As noted on Aug. 19, the company was "chartered to build a line, altogether 90 miles long, from Kanawha Falls to a point near Point Pleasant. Survey is being made between Charleston and Kanawha Falls. Line from Charleston to Dunbar, five miles northwest, will be built immediately. Fred Paul Grosscup, George S. Couch, Uphur Higginbotham, H. A. Robinson, S. P. Smith and F. A. Agney, all of Charleston, W. Va., are incorporators. Capital, $100,000. T. J. Carmack is Engr."

COAL CREEK, TENN.—The Coal Creek Railway & Light Co. has been incorporated for the purpose of building an electric railway from Coal Creek to Briceville, a distance of about six miles. It will reach the fair grounds also. It has not been decided when construction will be started. It is the intention of the company to generate its own power. James Day is Ch. Engr.; J. P. Stanton is interested.

LEBANON, TENN.—The Board of Aldermen has granted a 99-year franchise to H. B. Bond, of Lebanon, to construct a street railway in Lebanon.

LOUISVILLE, KY.—The Kentucky Rapid Transit Co. has been incorporated under the laws of Delaware for the purpose of taking over various traction companies and interurban lines in Kentucky. At first its principal operations will be in Louisville, Lexington and Frankfort, Ky. The company is authorized to operate electric light and gas plants. Capital stock, $10,000,000, $2,500,000 of which is preferred stock and $7,500,000 is common stock. Samuel M. Clement, Jr., West End Trust Bldg., Philadelphia, Pa., is interested.

MANSFIELD, OHIO.—An extension is to be built by the Sandusky, Norwalk & Mansfield Electric Ry. Co., of Norwalk, Ohio, from Mansfield to Bucyrus, 30 miles distant. It is expected that the company will issue about $750,000 of bonds for the construction of this branch. The company also proposes to build a line from Mansfield to Shelby, ten miles, to connect with the Mansfield and Bucyrus branch. G. A. Bartholomew, Norwalk, is Pres. and Gen. Mgr.

CLEVELAND, OHIO.—The People's Street Ry. Co., of Cleveland, Ohio, has been incorporated in Ohio to construct an electric street railway in Cleveland. Capital stock, $10,000. The incorporators are: Thomas J. Dolan, Miles Dodd, Hugh McConnaughy, Robert Johnstone and Francis E. Cottier, all of Cleveland.

MONTICELLO, IND.—The Indiana Northwestern Traction Co., Monticello, Ind., has been incorporated to build an electric railway from LaFayette to Hammond via Logansport. The officers are: Eugene Puntelle, 222 La Salle St., Chicago, Ill., Pres., George A. Haskell, Chicago, Treas., and W. F. Brucker, Monticello, Secy.

KALAMAZOO, MICH.—A mortgage for $3,000,000 has been filed by the Michigan & Chicago Westbound Ry. Co. with the Chicago Title & Trust Co. The proceeds are to be used for building an electric railway between Kalamazoo and Grand Rapids, Mich. Alfred H. Brown is interested in this project.

ADEL, IOWA.—The Adel City Ry. Co. has been incorporated to construct an interurban railway from Des Moines to Adel. Capital stock, $10,000. Dan A. Blanchard, L. M. Macy, W. B. Kinnick, Robert Pilmer, F. F. Flynn, B. J. Flynn, R. L. Parrish and H. A. Smith are incorporators.

CENTERVILLE, IOWA.—We are officially advised that the contract for grading the 7-mile extension from Centerville to Mystic, Iowa, has been let to BARTON J. SWEATT, of Boone, Iowa. The company expects to build its own bridges, lay the rails and do the overhead work. Frank S. Payne is Pres.; F. E. Holbrook is Engr., Centerville. Noted on Aug. 19.

MISSOULA, MONT.—Contract has been awarded by the Missoula St. Ry. Co. to CLINTON & RUMELHART, of Missoula, for grading the company's line from Pine St. to East Missoula, 2½ miles. The company also has awarded the contract for the construction of two trestles, one at East Missoula, and the other to span the Rattlesnake River, to MILBERRY & WEAVER, of Missoula. The company will lay its own rails when the grading is finished. W. A. Clark and others are interested. Noted on Feb. 4 and Sept. 16.

COLUMBIA, MO.—W. D. Ball, C. E., of St. Louis, Mo., has begun work on the final survey of the North Missouri Central Electric Ry. projected from Mexico to Columbia, and from here to Jefferson City, via Ashland. The line will be surveyed between Columbia and Ashland first, the village of Ashland, eight miles from the railroad, having raised $40,000 bonus to get the road. The bonus contracts are payable on condition that the road be built and operated within two years.

FORT WORTH, TEX.—See item under Railways—Fort Worth, Mineral Wells & Western.

VANCOUVER, WASH.—The Tum Tum Mountain Ry. Co., with headquarters at Vancouver, Wash., has been incorporated to build an electric railway to connect Chelatchie, Prairie, Amboy, View, La Center and Ridgefield, a distance of about 40 miles. A. Aronston, H. J. Hener and others are the incorporators.

WOODBURN, ORE.—A franchise has been granted by the City Council to the Oregon Electric Ry. Co., of Portland, Ore., to operate a street railway in Woodburn. The franchise provides that the company must commence work within two months. The railway is a branch of the main route from West Woodburn to Woodburn, three miles. Guy W. Talbot is Vice-Pres. and Gen. Mgr., Corbett Bldg., Portland.

OAKLAND, CAL.—The Directors of the Oakland & Antioch Ry. Co. have voted to authorize a bonded indebtedness to raise funds with which to construct an electric railroad from Oakland to Antioch by way of Walnut Creek, Concord and Bay Point. Surveys for the line, which will be 47 miles in length, have been completed and final locations made. A. W. Maltby is interested.

OTTAWA, ONT.—The Ottawa & St. Lawrence Electric Ry. Co. has been organized to build from Ottawa, Ont., southeast through Metcalf, Kenmore, Vernon, Ormond, Winchester, Case Bridge, Winchester Springs and Williamsburg to Morrisburg, thence southwest along the north shore of the St. Lawrence River through Iroquois, Cardinal, Prescott and Maitlands to Brockville, thence northwest through Perth to Lanark, thence north through White Lake to Arnprior and easterly via Fitzroy Harbor to Ottawa, 201½ miles, with branches from Morrisburg for 30 miles, from Kenmore to Russel, 3½ miles, and from Darling to High Falls, 15 miles. Surveys have not been made. It is expected that construction work will be started this year. The estimated cost of the line is $3,000,000. A. H. N. Bruce is Ch. Engr., Ottawa.

BOSCURVIS, SASK.—The Fisher Construction Co., of Chicago, Ill., is having preliminary surveys made for an electric railway to run from Minot, N. Dak., to this town. It is reported $150,000 has been subscribed to the project.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The city has awarded to the RISING SUN STREET LIGHTING CO., 186 Devonshire St., Boston, the lighting contract providing for gas for about 10,800 lamps and the care of lighting them at $23.61 per lamp, the contract to expire Feb. 1.

ERVING, MASS.—The city has voted to accept the act of the Legislature establishing an electric light district in Precinct No. 1 and to establish a lighting system. The commission has been authorized to purchase electricity to supply street lamps, at a cost not to exceed $300. Noah Rankin, Henry D. Reynolds, William T. Richards and Charles F. Clark compose the commission.

CONWAY, MASS.—The Conway Electric Street Ry. Co. is reconstructing the dam on South River near Conway Junction, to furnish power to generate electricity, which will be utilized for operating the street railway system and also for lighting. It will be 125 ft. high, providing a storage capacity of 120,000,000 gallons. William Alden is Supt.

PEACE DALE, R. I.—Preparations are being made by the Peace Dale Mfg. Co., of Peace Dale, to equip a portion of its mill for electric drive. Contracts have been awarded by the company to the WESTINGHOUSE ELECTRIC MFG. CO., 209 Ninth St., Pittsburg, Pa., through Lockwood, Green & Co., of Boston, Mass., for a 750-KW., low-pressure, steam turbine, to be driven by the exhaust steam of the main engine. A generator will be connected with the turbine, which will furnish electricity to operate a large part of the worsted mill. The dyehouse, wool-scouring mill, combing and drawing departments will be driven by motors placed in the different departments.

CANAAN, CONN.—The Canaan Fire District has voted to renew the contract for street lighting, with the BERKSHIRE POWER CO. for a term of five years at $15 per lamp per year.

ROCKVILLE, CONN.—Preparations are being made by the New England Co. to replace the old wooden water wheel in its plant with a new turbine wheel, which, when installed, is to drive an electric generator to provide electricity to operate the mill.

BROOKHAVEN (L. I.), N. Y.—The Second District Public Service Commission, Albany, has authorized the Patchogue Electric Light Co., Samuel Secord, Ch. Engr., to exercise franchises to furnish light for public and private use in this town.

WHITE PLAINS, N. Y.—Contract for constructing a sub-station here for the New York Central & Hudson River R. R. Co., G. W. Kittredge, Ch. Engr., New York, has been awarded to the CARLIN CONSTRUCTION CO., 16 East 23d St., New York.

LYONS, N. Y.—The Public Service Commission, Albany, has granted permission to the Lyons Gas Light Co. to issue a $100,000 mortgage, of which $9,600 is to be used to construct a high-pressure gas main.

DE KALB JUNCTION, N. Y.—The Public Service Commission has granted the Rensselaer Falls Electric Light & Power Co. permission to construct and operate a distribution system here and in DeKalb Junction for furnishing electricity for lamps, heat and motors.

ROCHESTER, N. Y.—The ALLIS-CHALMERS CO., of Milwaukee, Wis., has secured contract, it is reported, to furnish two water wheels to be installed at Station 5, capacity 2,400 HP., and Station 15, capacity 1,200 HP., of the Rochester Ry. & Light Co.

The Board of Contract & Supply on Sept. 8 awarded contract for wiring the Convention Hall addition and installing an electric elevator to the ROCHESTER ELECTRIC CONTRACTING CO., 46 N. Water St., at $6,438.

SYLVAN BEACH, N. Y.—The citizens have voted to erect an electric light plant. E. J. Brown is Secy. Bd. Village Trustees.

LITTLE FALLS, N. Y.—G. R. Beardslee, of East Creek, N. Y., is interested, it is reported, in the construction of a power plant on East Canada Creek, at Inghams' Mills.

IRVINGTON, N. J.—Bids were opened on Sept. 7 by the Town Council for a municipal electric plant. The only bid received for the plant, it is reported, was that of the Reading Electric Co., of Reading, Pa., which offered to construct the plant, including building, installing engine, boiler and other apparatus, placing poles, stringing wires and putting the lamps in position for operation by the town at $55,000. Seven arc lamps of 2,000 c. p. and 800 32 c. p. incandescent lamps to be installed. The Public Service Corporation submitted a bid on the renewal of its contract, which expires Jan. 1, 1910, as follows: Bids are of a 1, 3 and 5-yr. contract, and on not less than 570 incandescent lamps of 32 c. p. and 5 arcs of 2,000 c. p. at any time: 1-yr. contract, $17 per lamp per annum; 3-yr. contract, $15 per lamp per annum; 5-yr. contract, $15 first year, $16 second year, $17 third year, $18 fourth year, $19 fifth year, $20 per lamp; arc, $95 per lamp per annum; 3-yr. contract, $85 first year, $90 second year, $95 third and fourth years, $100 fifth year, per lamp; arc, $90 each per annum.

HARRISBURG, PA.—All bids received Aug. 30 by the City Council for lighting the subways, city department buildings, offices and the Mulberry St. bridge were rejected. New bids will be asked.

READING, PA.—GEORGE CHARLES, of Wilmington, Del., has signed contract from the Metropolitan Electric Co. of Reading, for furnishing and installing 16,625 HP. Edge Moor boilers in the company's new power plant here.

WILMINGTON, DEL.—The Wilmington & Chester Traction Co., Samuel Hoff, Gen. Mgr., is planning to install a 1,500-KW. alternating-current generator turbine.

THURMONT, MD.—The citizens have decided to form a corporation to build an electric lighting plant. It is the purpose of the Town Council to get power by an act of the Legislature to issue bonds for the payment of the plant, after which it will be turned over to the town officials. The incorporators will include: Col. John R. Hammaker, J. W. Creager, A. A. Birely, L. N. Creager, L. S. Birely, I. H. Waesche, Thomas E. Lycett, D. R. Rouzer, Charles Mackley, Senator J. P. T. Mathias and J. P. Waesche. Articles of incorporation are being prepared.

WASHINGTON, D. C.—The Bureau of Yards and Docks, Navy Department, Washington, has awarded contract for furnishing one 1,000-KW. and two 1,500-KW. turbo-alternators for the navy yards at New York, Philadelphia and Boston to the WESTINGHOUSE MACHINE CO., 165 Broadway, New York, at $64,750.

FREDERICKSBURG, VA.—Preparations are being made by the Fredericksburg Power Co. for the construction of a new powerhouse here. The new dam has been completed and is in use, the old dam being abandoned.

HIGHLAND PARK, VA.—Bids are asked until Sept. 23 by the town for furnishing material and constructing a system of poles and wires for the distribution of electric current throughout the town. A. G. Quarles is Chn. Bd. Town Trustees.

LURAY, VA.—The Shenandoah River Light & Power Corporation, W. E. Siebert, Supt., has awarded contract for constructing a large concrete dam to replace the present wooden structure across the Shenandoah River, one mile below here, to LANE BROS.

FORT MYER, VA.—Bids will be received until Oct. 13 by Capt. Warren W. Whiteside, Constructing Q. M., U. S. A. Fort Myer, for interior electric wiring of 44 buildings, including fixtures and the installation of a complete outside distributing system for this post. Alternate bids will be received for underground and overhead distributing system.

ANDERSON, S. C.—The Anderson Water, Light & Power Co., R. T. Long, Supt., contemplates improvements to its power plant located at Portman Shoals, which will increase the output of the plant by 700 HP. Estimated cost, $20,000. H. A. Orr is Pres. and Mgr.

DALTON, GA.—Plans are being considered by the City Council for improvements and extensions to the municipal electric light plant, which will include the installation of an engine and generator. Estimated cost, $10,000.

ATLANTA, GA.—The city on Sept. 8 decided to extend for one year the franchise of the Piedmont Power Co. to furnish Atlanta with electric power.

HARTSELLS, ALA.—Plans are being made to establish an electric light plant in connection with the proposed cottonseed-oil mill to be erected here. J. H. Corshie, Mayor, is interested.

MERIDIAN, MISS.—The Meridian Light & Power Co. is making improvements and extensions to its system to cost from $45,000 to $60,000. Contracts have been let and work is under way. J. N. Eley, of Atlanta, Ga., is Engr.-in-Charge.

LOUISVILLE, KY.—Plans have been completed by D. X. Murphy & Bro., of Louisville, for the proposed factory building for Udolpho Snead at a cost of about $200,000. They provide for a building eight stories high to cover an area of 185 ft. × 90 ft. and will be used for manufacturing purposes, the tenants to be supplied with light, heat and power. Bids for construction of the building will soon be asked.

CROOKSVILLE, OHIO.—Plans are being considered by the Independent Telephone Co. to improve and extend its local plant. Estimated cost, about $3,000. J. B. Rhodes is Local Mgr.

WATERVILLE, OHIO.—A company has been organized here for the purpose of furnishing electricity for lamps and motors. No plans have been prepared or machinery purchased. Delmar J. Farnsworth, G. D. Bedrich, C. J. Stickney, H. F. Van Fleet, G. G. Schwin and J. H. Bennett, all of Waterville, are interested.

CANAL DOVER, OHIO.—Contract for the construction of the new electric plant and power-house, it is reported, has been awarded to HARRY B. SAXE. Estimated cost, about $35,000.

HAMILTON, OHIO.—The Ohio Fuel Supply Co., of Columbus, Ohio, was the only bidder on Sept. 14 for furnishing the city with a 10-year supply of gas. The bid was as follows: To deliver natural gas to the city gas works at the following rates: First two years, 18 cts. per 1,000 cu. ft.; following three years, 20 cts.; last five years, 22 cts. The company reserves the right to sell gas privately to manufacturers.

MONMOUTH, ILL.—Plans are being made by the Rock Island Southern R. R. Co. for the construction of a power-house at Edwards Ridge. Contracts for the equipment have been awarded to the WESTINGHOUSE ELECTRIC MFG. CO., 209 Ninth St., Pittsburg. The equipment will include two turbine units complete with generators rated at 15,000 KW.

MOLINE, ILL.—The Moline Plow Co., of Moline, is changing its plant from steam power to electric drive. Contracts for the switchboards, panel boards, switches, etc., have been awarded to the TRIO MFG. CO., of Rock Island, Ill., and for the motors and circuit breakers to the WESTINGHOUSE ELECTRIC MFG. CO., Pittsburg, Pa. The ELECTRIC CONSTRUCTION & MACHINERY CO., of Rock Island, secured contract for the installation of the entire equipment.

WASHBURN, WIS.—The city has awarded contract, it is reported, to the ASHLAND POWER CO., of Ashland, Wis., for furnishing electricity here. A transmission line will be erected from the power plant on the White River to Ashland.

ROCHESTER, MINN.—The Council has voted to make improvements and extensions to the municipal electric light plant, including the installation of a 500-KW. generator, steam engine and switchboard.

SAN ANTONIO, TEX.—Contract for the power plant for the Southwestern Insane Asylum here has been awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., by Charles B. White, State Purchasing Agt. The plant is to be installed at once and the equipment will include boilers, engines and electrical machinery.

CENTRAL CITY, COLO.—The Maumee Gold Mining Co., owning a group of claims is considering the installation of a large power plant to furnish electricity for the mines.

ALAMOGORDO, N. MEX.—Arrangements are being made by the High Mills Rolls Co. for the construction of a large power plant to furnish electricity for a new electric railway and for several pumping stations in the valley.

SPOKANE, WASH.—Bids will be received until Oct. 8 by the Board of Public Works, J. T. O'Brien, Secy., for equipment, including three 5,000,000-gallon multi-stage, centrifugal pumps, one 650-HP. horizontal water wheel, three induction motors, switchboard and connections.

WOODBURN, ORE.—The Portland Railway, Light & Power Co., of Portland, Ore., has been granted a franchise by the Marion County Court for the erection of a high-tension transmission line from Mount Angel to Woodburn. Estimated cost, about $7,000. Rollin K. Page is Local Mgr.

EUGENE, ORE.—The City Council has awarded contract for the construction of the transmission line of the city's new power plant on the McKenzie River to J. B. MORRIS, of Eugene, at $3,642. Length, about 15 miles.

DAYTON, ORE.—The Yamhill Electric Co. has been granted a franchise by the City Council to construct and operate an electric light plant here.

STOCKTON, CAL.—Contract has been awarded by the Trustees of Reclamation District No. 348 to the PACIFIC GAS & ELECTRIC CO., San Francisco, for furnishing power to the district to operate pumping plants for a period of ten years, at $30,000. There will be installed on the 15,000-acre tract three 100-HP. centrifugal pumps and two 350-KW. transformers. The introduction of electricity to operate pumping plants in the delta region is an innovation, and it is stated that other tracts will follow suit.

FRUITVALE, CAL.—The Board of Supervisors has organized the Fruitvale Lighting District Board. Arrangements have been made for the erection of 136 lamps in the district. Estimated cost of maintenance of the lamps for the ensuing year, $9,000.

LOS ANGELES, CAL.—The Bureau of Los Angeles Aqueduct Power, which is to operate under the direction of the Board of Public Works, has been formed to take charge of the development of the Owens River water power in connection with the aqueduct. E. F. Sattergood, employed by the Aqueduct Department in connection with the development of the water power to generate electricity for use in connection with the construction of the reservoir, has been retained by the bureau, and will be Chief Electrical Engineer. According to the present plans the estimated cost will be about $4,500,000 to develop the power and transmit it here.

SALT LAKE CITY, UTAH.—Plans have been completed by the Salt Lake & Ogden Ry. Co., E. A. Vail, Ch. Engr., for the construction of a new power plant at Farmington to supply electricity to operate the trains between Salt Lake City and Ogden. H. A. Strauss is Consulting Engr.

HAGERMAN, IDAHO.—Plans are being considered, it is reported, by H. A. Stroud for the installation of an electric power plant with an output of 75,000 HP.

LONDON, ONT.—The Board of Aldermen has instructed E. I. Sefton, Electrical Engr., to prepare plans for an underground system for the transmission lines of the Hydro-Electric Commission power system and to procure estimates of cost.

GUADALAJARA, MEX.—The Chapala Hydro-Electric & Irrigation Co. has made arrangements with the Caja de Prestamos, of Mexico City, for a loan of $2,200,000, the proceeds to be used as needed in connection with the construction of the new power plant at Puente Grande, on the Santiago River, the erection of transmission line to the Etzatlan and Hostotipaquillo mining districts, and for pumping plants and irrigation canals. The company recently entered into a contract with the Department of Fomento for a loan of $3,000,000, the proceeds of which will be used for building the proposed dike across a portion of Lake Chapala from La Palma to Jamay. Work has commenced on the erection of the iron towers to carry the transmission lines to the mining districts of Etzatlan and Hostotipaquillo. It is stated that electricity will be furnished in the former district by the first of the year and in the latter by March, 1910. Electrical energy will be furnished from the company's plant near Las Juntas, near here, pending the completion of the Puente Grande power plant. The new company has formally taken possession of the street railways, light and power systems in Guadalajara. At a recent meeting held in Mexico City the local company was consolidated with the Chapala Hydro-Electric & Irrigation Co.

BRIDGES.

NEWBURY (Newburyport post-office), MASS.—Bids will be received until Sept. 28 by the Massachusetts Highway Commission, Boston, Harold Parker, Chn., for erecting a steel bridge over Parker River in this town.

HAVERHILL, MASS.—Bids for rebuilding the wooden fender pier of the Groveland bridge over the Merrimac River between the city of Haverhill and the town of Groveland will be received by the County Commissioners of Essex County, Salem, until 10 a. m., Sept. 27. James P. Hale is Asst. Clk.

BABYLON (L. I.), N. Y.—The Town Boards of Islip and Babylon on Sept. 13 awarded contract to build a concrete bridge between the two towns at the head of Sumpwams River, to the CANTON BRIDGE CO., Canton, Ohio. The bridge will be built of reinforced concrete and will be highly ornamental. Estimated cost, about $3,000.

NEW YORK, N. Y.—Bids will be received by J. W. Stevenson, Comr. of Bridges, until 2 p. m., Sept. 29, for constructing drip pans under the Manhattan approach of the Williamsburgh bridge.

PITTSBURG, PA.—The Federal Water Department has approved plans for the bridge to be erected over the Allegheny River at the Point. The bridge will be a steel truss structure with but one pier in the river, giving two spans, each 523 ft. long. The south approach will be 850 ft. long, the north approach 894 ft. Estimated cost, $1,000,000. N. S. Sprague is City Engr.

CARLISLE, PA.—The FERRO-CONCRETE CO., of Harrisburg, Pa., has been awarded contract at $4,250 for the erection of a new bridge over Conodoguinet Creek at Peiffers Mills, about six miles west of Newville.

*PHILADELPHIA, PA.—The Assistant Director of Public Works awarded contracts on Sept. 16 for Schedule A bridges as follows: To the McNICHOL PAVING & CONSTRUCTION CO., Betz Bldg., for two steel-plate girder bridges on concrete abutments on the line of Tabor St. under the North Penn and the Tabor branches of the Philadelphia & Reading R. R., at $52,200, to be completed in eight months; to McCORMICK & CO., 14 S. Broad St., for concrete arch bridge, over the Philadelphia, Baltimore & Washington R. R. on the line of 66th St., at $18,300, six months. Other bids for bridge on line of Tabor St. were: John McMenemy, $59,000, ten months; David Peoples, $59,000, ten months; C. P. Bower Construction Co., $71,610, eight months; Stroebel Steel Construction Co., $66,000, eight months; McCormick & Co., $56,000, nine months; Owego Bridge Co., $57,000, six months. Other bids for the construction of the 66th St. bridge were: Penn Bridge Co., $17,689, four months; John McMenemy, $23,800, six months; McNichol Paving & Construction Co., $21,800, eight months; David Peoples, $23,300, six months; M. & J. B. McHugh, $22,200, six months; C. P. Bower Construction Co., $24,180, four months.

DAUBERVILLE, PA.—Bids are asked by A. L. Rhoads, County Controller, until 10 a. m., Oct. 5, for repairing the Dauberville bridge crossing Irish Creek in Center Township.

READING, PA.—No bids were received on Sept. 9 by the County Commissioners for repairing the Maidencreek bridge, a 3-arch stone structure, ½ mile above Maidencreek Station. New bids are asked by A. L. Rhoads, County Controller, until Oct. 1.

LURAY, VA.—Bids were received on Aug. 28 by P. St. J. Wilson, State Highway Comr., Richmond, for constructing two steel bridges over Shenandoah River, Page County to be 546 ft. and 577 ft. in length respectively. The PENN BRIDGE CO., of Beaver Falls, Pa., has been awarded the contracts.

MONTERRY, VA.—Bids were opened by P. St. J. Wilson, State Highway Comr., Richmond, on Aug. 28 for constructing two steel bridges in Highland County, to be 70 and 150 ft. in length, respectively. Contracts will probaby be awarded to be CAROLINA ENGINEERING CO., Burlington, N. C., and to PENN BRIDGE CO., Beaver Falls, Pa.

HUNTINGTON, W. VA.—The Huntington & Northern Ry. has applied for a franchise to build a bridge over the Ohio River here.

JACKSONVILLE, FLA.—Bids were received as follows by the County Commissioners on Sept. 10 for the construction of bridges: Pablo Creek bridge: Mackle-Crawford Co., $10,250; Florida Bridge Construction Co., $8,890; Roanoke Bridge Co., Design B, $7,000, Design C, $8,195; CONVERSE BRIDGE CO., Chattanooga, Tenn., Design A $5,980, Design B $7,995, (awarded contract) Design C $8,195, Design D $9,200; Carolina Engineering Co., No. 1 $8,500. No. 2 $8,700; Crafts & Smith, $6,989. The lowest bid submitted is that of the Converse Bridge Co., Design A, at $5,980. Julington Creek bridge, Crafts & Smith, $3,150; Converse Bridge Co., $4,340; E. N. Keen & Co., reinforced concrete, $7,907; Thompson Engineering Co., reinforced concrete, $5,550; CANTON BRIDGE CO., Canton, Ohio, $3,510 (awarded contract), deck bridge, $3,703; Owego Bridge Co., $7,500; Logan Coal & Supply Co., reinforced concrete, $4,961; Illinois Bridge Co., $4,790.

GREENWOOD, MISS.—Le Flore County has awarded contract to W. T. YOUNG & CO., of Greenwood, at $19,800, for the construction of an iron bridge across the Tallahatchie River near Ashwood Ferry.

MONTICELLO, MISS.—Bids are asked by Lawrence County until Oct. 4 for constructing a steel bridge across Bohala Creek, steel approaches to steel bridges across Pearl River and steel bridge across Hall's Creek. W. H. Speights, is Clk. Bd. Supervisors.

SANDUSKY, OHIO.—Bids were opened on Sept. 3 as follows by the County Commissioners, Sandusky, for constructing a 30-ft. span arch bridge 80 ft. long across Pipe Creek on Milan road, Perkins Township: N. E. HAWKINS, Sandusky, $4,726 (awarded contract); G. W. Doerzluck, $4,836; Sievert Bros., $5,757; L. B. Battefeld, $6,370; Frank Siles, $6,500; Truett & Rickeman, $7,269.

*CINCINNATI, OHIO.—Bids will be received until Oct. 11 by the Board and Director of Public Service, John J. Wenner, Clk., for furnishing labor and material for the substructure and superstructure work of a lift bridge at Mohawk Pl. over the Miami and Erie Canal.

JOHN NICKSON has secured contract, it is stated, for erecting a bridge and fill on Lowland road over Muddy Creek, at $5,343.

ATTICA, IND.—On Sept. 9 the County Commissioners let the contract for the rebuilding of the Shupe bridge over Shawnee Creek, to BOGGS & WERTZ, of Veedersburg, at $4,300.

BROOKVILLE, IND.—Bids are asked by the Board of County Commissioners until Oct. 4 for constructing a large concrete arch over Johnson's Fork Creek. C. A. Miller is County Audr.

GOSHEN, IND.—Bids are asked until 9.30 a. m., Oct. 6, by the Elkhart County Commissioners for the construction of bridges in various townships.

NEW CASTLE, IND.—The County Commissioners on Sept. 14 let contracts for a number of bridges and repairs to others to the BURK SUPPLY CO., of this city. The work amounts to about $6,000. The contract for a bridge southeast of the city was not let as the bids submitted were considered excessive.

FORT WAYNE, IND.—We are officially advised that contract for constructing approaches to the New Haven River bridge has been awarded by the Allen County Commissioners to A. C. GLADIEUX, at 29½ cts. per yd.

FLINT, MICH.—The Board of Supervisors will probably soon awarded contract for constructing a bridge over the Flint River here. Estimated cost, $18,000.

HUME, ILL.—REEDER & GALES, Tipton, Iowa, have been awarded contract, at $5,856, for constructing seven new bridges in this place north of Tampico.

MILWAUKEE, WIS.—FRANK BEZEZINSKI, 1165 First Ave., Milwaukee, has been awarded contract by the Board of Public Works, at $7,149, for the construction of a concrete bridge with concrete abutments over the Kinnickinnic River at First St., in the 14th Ward.

MARINETTE, WIS.—Bids will be received until 2 p. m., Sept. 30, by the Joint Committee of the towns of Lake and Beaver and of the County of Marinette for the construction of a steel bridge across the Peshtigo River on the section line between sections 24 and 25 in Town 31 N., R. 20 East.

PAWNEE CITY, NEB.—Bids are asked until 11 a. m., Oct. 5, by the Board of County Commissioners at the office of the County Judge for the construction of a steel 32-ft. I-beam girder bridge on some highway leading south from the village of Burchard.

VAN BUREN, ARK.—Waddell & Harrington, Consulting Engrs., Kansas City, Mo., have been retained to prepare preliminary plans for the construction of the free bridge across the Arkansas River here.

SACRAMENTO, CAL.—The Supervisors of San Joaquin County have awarded contract for the construction of a drawbridge at Bensons Ferry to the CLARK & HENERY CONSTRUCTION CO., at $13,689.

PALA, CAL.—Bids were opened by the Commissioner of Indian Affairs, Washington, D. C., on Sept. 8, for furnishing materials and labor for constructing a bridge over the San Luis Rey River, Pala Reservation, Cal., as follows: Union Iron Works, Los Angeles, $4,615; Mercantile Bridge Construction Co., Los Angeles, $5,950; J. L. Brickels, Los Angeles, $4,881; Penn Bridge Co., Beaver Falls, Pa., $4,989; Merry-Elwell Co., Oakland, $4,845; W. D. Lovell, Minneapolis, Minn., $5,400; Minneapolis Steel & Machinery Co., Minneapolis, Minn., $5,932.

RED BLUFF, CAL.—Bids were received as follows on Sept. 7 by the Tehama County Board of Supervisors for the construction of bridges: For the construction of a new bridge over the Thomas Creek at Finnell crossing: Pacific Construction Co., $20,570; Merry-Elwell Co., $23,375; Western Bridge Co., $20,947; Clark & Henery Construction Co., $23,247; Hyde-Harjes Co., $21,950; C. W. Swain, Ione, $23,853; Cotton Bros., $20,997. For repairing the Flourney bridge over the same stream near Paskenta: Pacific Construction Co., $5,890; Merry-Elwell Co., $6,382; Western Bridge Co., $6,124; Clark & Henery Construction Co., $6,283; Hyde-Harjes Co., $6,487; San Francisco Bridge Co., $6,000; Cotton Bros., $6,540. The PACIFIC CONSTRUCTION CO., 16 California St., San Francisco, was awarded both contracts.

TORONTO, ONT.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of the superstructure, weighing about 500 tons, of a bridge on the extension of Wilton Ave., over Don River. Bids are asked until Oct. 4. C. H. Rust is City Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

PORTSMOUTH, N. H.—See Washington, D. C.

PITTSFIELD, MASS.—LEVERING & GARRIGUES, West 23d St., New York, have secured the contract for the steel work for a storage building to be erected at Pittsfield, Mass., for the Stanley Co., of this city, to cost $80,000.

*PITTSFIELD, MASS.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 25, for construction (complete) of the U. S. post-office at Pittsfield.

CHELSEA, MASS.—See Washington, D. C.

SPRINGFIELD, MASS.—Bids are asked by the Fire Commissioners until Sept. 30 for a 5-story steel, stone and brick Fire Headquarters building to cost $90,000. B. Hammett Seabury, 21 Besse St., Springfield, is Arch.

NEWPORT, R. I.—See Washington, D. C.

TROY, N. Y.—We are officially advised that R. Clipston Sturgis, 120 Boylston St., Boston, Mass., is preparing plans for a 3-story and basement brick, stone and steel fireproof school, 100 × 200 ft., to be erected on Seventh Ave., between State and Congress Sts., Troy, by the Board of Contract and Supply, James H. Reilly, Secy. The building will include a gymnasium, manual training department, foundry, forge and machine room, assembly hall including a gallery to seat 700. Estimated cost, $375,000. Bids will be advertised when the plans are ready.

NEW YORK, N. Y.—PETER CLEARY, 115 Marion St., Brooklyn, has secured the mason work for the 4-story nurses' home, 50 × 120 ft., which the Jewish Hospital Association, Classon and St. Marks Aves., will erect on the west side of Prospect Pl., 135 ft. east of Classon Ave., Brooklyn, to cost about $100,000. Plans by G. L. Morse, 503 Washington St., Brooklyn, call for a building of stone, fireproof construction. Pattison Bros., 949 Broadway, New York, are Elec. Engrs.

The Floyd Construction Co., 215 West 125th St., will erect a 6-story flat, 100.11 × 90 ft., at the southwest corner of Amsterdam Ave. and 100th St., to cost about $150,000. Bernstein & Bernstein, Archs., 24 East 23d St., have completed the plans.

The United Cigar Stores Co. has leased the property at the northeast corner of Broadway and 42d St. for the site of its proposed 20-story building. The structure will cost $1,000,000. George J. Whelon is Pres.

Harry T. Howell, Arch., Third Ave. and 149th St., has completed plans for a 6-story flat building, 30.5 × 90.11 ft., for Jacob Hirsch, 1655 Park Ave., to be erected on Edgecombe Ave., the west side, 202.7 ft. north of 141st St., to cost $40,000.

Gross & Kleinberger, Archs., Bible House, have completed plans for the 6-story apartment house, 99.11 × 140 ft., to be erected at the northeast corner of Broadway and 151st St., to cost $200,000. The Castleton Construction Co., 128 Broadway, is the owner.

NEW YORK, N. Y.—Bids are asked by the Board of Health, Dr. Thomas Darlington, Pres., until 10 a. m., Oct. 1, for furnishing all the necessary labor and material required for installing steam heating apparatus in certain buildings at the Tuberculosis Sanitarium at Otisville, Orange County, N. Y., for the Department of Health, City of New York.

Bids are asked until 2.30 p. m., Sept. 29, by Robert W. Hebberd, Comr. Public Charities, for furnishing all the labor and materials required for the complete remodeling of the building, 124 East 59th St., Boro. of Manhattan, the City of New York.

Plans have been filed for a 5-story dwelling house to be built for John B. Trevor, as owner, from designs by Trowbridge & Livingston, Archs., 527 Fifth Ave. It will be of brick and limestone. It is to be of the Colonial type, finished with a mansard roof and large casement windows, with ornamental railings at the second story. It is to be 26 ft. front and 80 ft. deep, with an extension and is to cost $75,000.

A 12-story business building will be built by James Carlew on the premises at 3 to 7 West 37th St., 75 × 100 ft., which he bought from Samuel K. Jacobs.

Plans have been filed for a 4-story loft and store building to be erected on land owned by Robert Smith, at 61 West 14th St., for James Devanney. It is to be of Flemish bond faced brick, 25 ft. front and 105 ft. deep. James W. Cole, 403 West 51st St., is Arch.

NEW YORK, N. Y.—Plans have been filed with the Building Superintendent for an 8-story apartment house to contain suites for 38 families, and to be built on 93d St., 425 ft. west of Central Park West, from designs by Charles B. Meyers, 1 Union Sq., Arch., for Julius Tishman, at a cost of $225,000.

A 6-story flat, with 35 suites of apartments is to be built from designs by C. B. Meyers, on 44th St., 150 ft. east of Tenth Ave., for Lipman & Root, at a cost of $40,000.

Plans have been filed for two 6-story flat-houses, with stores. They are to be built from designs by Young & Gronenberg, Archs., 67 West 36th St., in 123d St., east of Lenox Ave., for the Newport Realty Co., Max J. Klein, Pres. They are to cost $50,000.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Oct. 6, for furnishing all the labor and materials for the erection and completion of a 2-story brick building for the Bureau of Sewers, Boro. of Brooklyn, on the property of the City of New York, known as the Corporation Yard, situated on the north side of 38th St., 200 ft. west of Fifth Ave., Boro. of Brooklyn.

Bids are asked by Allen N. Spooner, Comr. of Docks and Ferries, until noon, Oct. 4,

for building a steel freight shed with appurtenances on the pier between 31st and 32d Sts., Boro. of Brooklyn, to be known as the 31st St. pier shed.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Coms. of Public Charities, until 2.30 p. m., Oct. 4, For furnishing all the labor and material required to paint the exterior of ten buildings located on Randalls Island, the city of New York.

Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education until 3 p. m., Oct. 4, for structural alterations at Public School No. 100 (vocational school), on 138th and 139th Sts., west of Fifth Ave., Borough of Manhattan; also for alterations, repairs, etc., at Public School No. 30, Conover, Sullivan and Walcott Sts., and dumbwaiter shaft, car, etc., at manual Training High School, Seventh Ave., Fourth and Fifth Sts., Borough of Brooklyn.

CORTLAND, N. Y.—Rev. Father Donohue, St. Mary's Roman Catholic Church, will take bids about Nov. 1 for superstructure of church structure to be erected on North Main St. from plans of William P. Gunther, Arcade Bldg., Akron, Ohio. The building will be of granite, 66 × 160 ft. Cost, about $100,000.

PEEKSKILL, N. Y.—The Sisters of St. Mary are having plans prepared by Cram, Goodhue & Ferguson, 15 Beacon St., Boston, Mass., for a school building. Asbury Barker, Peekskill, N. Y., will superintend construction. Sister Mary Theodora is in charge.

WOODHAVEN (L. I.), N. Y.—A hospital costing $500,000, is to be built by the Sisters of the Poor of St. Francis, a religious corporation controlling several hospitals, including St. Peter's of Brooklyn, St. Elizabeth's of Manhattan and St. Joseph's of the Bronx. The hospital will be erected at Woodhaven Ave. and Fulton St., Woodhaven, where the sisters own eight acres.

ALBANY, N. Y.—The FOUNDATION CO., 11 Broadway, has been awarded the contract for the foundations for a stable and warehouse building for the Standard Oil Co. at Van Rensselaer Island, Albany. The foundations will consist of Simplex concrete piles, 160 of which will be installed.

JAMESTOWN, N. Y.—Bids are asked by the City until Sept. 24 for the City Hospital building, to be 40 × 160 ft., three stories and basement, stone and brick, of fireproof construction, John H. Coxhead, is Arch., 930 Ellicott Sq. Bldg., Buffalo, N. Y. Dr. Jason Parker is Chn. Hospital Commission. Estimated cost, $50,000.

NEWARK, N. J.—Peter Charles, Arch., 15 Clinton St., Newark, has taken bids for a 3-story office building to be erected at Orange and Seventh Sts., Roseville, for Edward T. Ward, to cost about $40,000.

BOGOTA, N. J.—The bids received Sept. 3 for erecting a new school were too high. A meeting will beheld soon to act on the matter. Rowland & Eurich, 15 Exchange Pl., Jersey City, are the Archs.

MADISON, N. J.—No contracts have yet been awarded for the Madison school which is to be of reinforced concrete construction. H. King Conklin, 45 Clinton St., Newark, is Arch.

PHILADELPHIA, PA.—Work will be started in a short time upon the house to be built on Chestnut Hill Ave. near Highland Ave., Chestnut Hill, for Charles A. Newhall. Plans were prepared by Brockie & Hastings, Archs., 328 Chestnut St. These plans provide for a 2½-story frame and rough cast structure, with a frontage of 90 ft. and a depth of 28 ft., exclusive of the servants' wing, which will measure 19 × 26 ft.

Thomas, Churchman & Molitor, Archs., 1309 Walnut St., have been commissioned to prepare plans for a parish house for St. Paul's Protestant Episcopal Church, at the corner of 15th and Porter Sts. The estimated cost of the building is $40,000.

DOYLE & CO., 1519 Sansom St., have obtained a permit for the 17-story addition which is to be built to the Real Estate Trust Building, at the southeast corner of Broad and Chestnut Sts. The addition will occupy the lot 1338 Chestnut St., which was purchased about three years ago by the Real Estate Trust Company for $500,000. The cost of the addition will be $160,000. T. C. Roberts and Edgar V. Lieber are Archs.

PHILADELPHIA, PA.—We are officially advised that the United Gas Improvement Co., 1001 Chestnut St., has decided to erect a store and office building on the site of the Archambault Building, at the northeast corner of Market and Eleventh Sts., which collapsed six weeks ago. The new structure, plans for which have been prepared by Lacey & Rush, 1012 Walnut St., will occupy both the site of the Archambault Building and the adjoining property. It will be five stories high, 40 × 100 ft., and will cost about $55,000. The following contracts have been let: General, Sax & Abbott Construction Co., 1328 Chestnut St., heating and ventilating, FRANCIS BROS. & JELLETT, INC., Broad and Wallace Sts.; elevator, OTIS ELEVATOR CO., 17 Battery Pl., New York.

CHARLEROI, PA.—Bids are asked until 7 p. m., Sept. 30, by Harry Zellars, Secy. of the Fraternal Order of Eagles, for constructing a brick hall. Separate bids will be received for plumbing and heating. J. A. Lohman, Donner Ave., Monessen, Pa., is Arch.

BALTIMORE, MD.—Plans for the new Harriet Lane Children's Hospital, which is to be built on the grounds of the Johns Hopkins Hospital, have been submitted by Wyatt & Nolting, Archs., Keyser Bldg., to the trustees and approved by the latter. To harmonize with the buildings of the group the architectural appearance of the Harriet Lane addition will be in conformity with these buildings. The hospital will be of red brick. It will be erected beside the Phipps Psychiatric Clinic, and will face on the hospital grounds, with its rear toward Jefferson St. The building will be five stories, and the estimated cost will be $200,000.

WASHINGTON, D. C.—Bids were received as follows on Sept. 18, at the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the construction of one set of four buildings with connecting passages at each of the navel hospital reservations at Chelsea, Mass., Newport, R. I., and Portsmouth, N. H. Each set of buildings is identical in finish and material used. (a) Work complete; (b) buildings at Portsmouth; (c) buildings at Chelsea; (d) buildings at Newport, R. I.; supplementary bids on heating and ventilating systems, (e) work complete; (f) Chelsea; (g) Portsmouth; (h) Newport: Thompson-Starrett Co., 51 Wall St., New York, (a) $876,000, (b) $301,000, (c) $287,000, (d) $288,000, (e) $63,000, (f) $21,000, (g) $20,000, (h) $21,700; contractor will accept award on complete work only; James E. Leamy & Co., 28 Larned Bldg., Syracuse, N. Y., (a) $942,745, (b) $320,625, (c) $309,773, (d) $312,347, (e) $64,200, (f) $21,700, (g) $20,500, (h) $22,000; Noel Construction Co., Fidelity Bldg., Baltimore, Md., (a) $785,100, (b) $288,000, (c) $265,000, (d) $270,000, (e) $62,000, (f) $22,000, (g) $20,500, (h) $21,500; Darling & Slade, 56 North Main St., Fall River, Mass., (d) $326,469; Michael A. McCormick, 4 Sherman St., Newport, R. I., (a) $1,048,715, (b) $363,771, (c) $342,721, (d) $342,221, (e) $68,227, (f) $22,742, (g) $22,700, (h) $22,742; George A. Glenn & Co., 928 North Eighth St., Philadelphia, (a) $759,800, (b) $261,643, (c) $256,506, (d) $254,900, (e) $69,000, (f) $23,000, (g) $23,000, (h) $23,000; C. M. Leach, Box 285, Boston, Mass., (a) $1,049,583, (b) $350,983, (c) $344,873, (d) $353,677; Charles H. Balleden, 35 Wareham St., Boston, Mass., (a) $992,086, (b) $330,527, (c) $323,392, (d) $338,117, (e) $57,000, (f) $19,000, (g) $19,000, (h) $19,000; William H. Fissell, 1133 Broadway, New York, (a) $851,558, (b) $289,497, (c) $284,328, (d) $282,183, (e) $62,000, (f) $21,000, (g) $20,000, (h) $21,000.

Bids were received as follows on Sept. 15, by the Secretary of the Interior, Washington, for the construction of the science hall, Howard University, Washington: Frank L. Wagner, 1311 G St., N. W., $100,805; Newman & Smith, Colorado Bldg., $103,440; Thomas H. Melton, 621 F St., N. W., $101,337; Boyle-Robertson Construction Co., $95,983; Thompson-Starrett Co., Commercial National Bank, $101,900; William H. McCray, Bond Bldg., $99,331; Page Construction Co., $115,076; Burgess & Parsons, 1417 G St., N. W., $100,400; Gormley Pointing Co., $103,806. All bidders of Washington, D. C.

WASHINGTON, D. C.—Bids were received as follows on Sept. 20 by the Commissioners of the District of Columbia for the construction of a 12-room school building, No. 156, at the southwest corner of Twelfth and L Sts., N. W., Washington: W. H. McCray, Bond Bldg., Washington, $141,000; Burgess & Parsons, Washington, $115,847; John MacGregor, Washington, $115,000; Milton C. Davis, Baltimore, $125,877; R. T. Humphrey, Fourth and M Sts., S. E., Washington, $109,000; George E. Wyne, Munsey Bldg., Washington, $112,000. Nine bids were received for furnishing 425 metal lockers, the lowest being that of the Narragansett Machinery Co., Providence, R. I., at $1,381.

RICHMOND, VA.—Bids were received as follows on Sept. 20 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the reconstruction of the post-office at Richmond, Va.: Cramp & Co., Commonwealth Bldg., Philadelphia, $920,400; W. A. Chesterman, Richmond, Va., $950,000; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $884,444; Norcross Bros. Co., Worcester, Mass., $1,060,000; J. W. Hall, Richmond, Va., $856,800; Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $892,900; George A. Fuller Co., Fuller Bldg., New York, $885,000; M. P. Wells, Philadelphia, $850,000; D. J. Phipps, Newport News, Va., $922,528; Henry Smith & Sons Co., Baltimore, Md., $910,000. Time, April 1, 1911.

HUNTINGTON, W. VA.—Col. J. A. Sheppard and Dr. L. V. Guthrie are making arrangements for an addition to the West Virginia asylum in this city. An architect has been instructed to draw up plans, and the contract for the building will be let within the next 30 days. The addition will cost about $70,600.

GREENVILLE, S. C.—At a recent meeting of the Masonic Temple Co. it was decided to begin at once the erection of a $100,000 modern office building in this city. This building is to be fireproof, and will have all modern conveniences. The location of the building is on South Main St., adjoining the lot on which the Government building is being erected. The size of the building is to be 48 × 125 ft., and it will be six stories high. Work will start about Oct. 1.

*FORT MORGAN, ALA.—Bids are asked by Capt. H. B. Chamberlain, Q. M., until 1.30 p. m., Oct. 15, for furnishing screens for doors, transoms and windows for buildings under construction at Fort Morgan.

BIRMINGHAM, ALA.—The plans for the proposed high school building, which is to cost $75,000, are about completed and the Board of Education will be ready for bids immediately. The building will contain an auditorium, manual training rooms, laboratories for the Chemist Department and Sciences, technical branches. D. O. Wildon, Title Guarantee Bldg., Birmingham, is completing plans.

COLUMBUS, MISS.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 22, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Columbus, Miss.

MEMPHIS, TENN.—The Louisville & Nashville R. R. Co. will proceed in a short time with the erection of a passenger station and terminals here which will cost at least $2,500,000, and which will be used also by four of the other roads entering Memphis, the Nashville, Chattanooga & St. Louis, the St. Louis, Iron Mountain & Southern, the St. Louis Southwestern and the Southern Railway. It is said that the Rock Island-Frisco system may come into this station also. All the roads entering this station will do so on a rental basis. The Louisville & Nashville has secured options on 18 acres of ground in the vicinity of Main St. and Calhoun Ave. The company is doubling the capacity of its freight yards in the eastern part of the city. W. H. Courtenay is Ch. Engr., Louisville, Ky.

LOUISVILLE, KY.—A permit to erect a passenger station at Seventh St. and the Ohio River has been taken out by A. H. Egan, Dist. Supt. of the Illinois Central R. R. Co. According to the plans the building will be of brick material, three stories in height and will cost $125,000. GEORGE B. SWIFT & CO., 118 Madison St., Chicago, have been awarded the contract to build the station. I. C. Enger, of Chicago, prepared the plans and drawings. It is stated that work will begin on the station at once.

FORT WAYNE, IND.—Announcement has been made by the Pennsylvania R. R. Co. of its plans to erect a passenger station in Fort Wayne at a cost of $225,000. It will be modeled after the station at Allegheny, Pa., and the work will be carried forward in connection with the project of track elevation. The company has recently completed the purchase of all the real estate in two squares adjoining its tracks west of Calhoun St., and the new station will be located there. J. B. McKim is Supt., Fort Wayne.

SPENCER, IND.—Bids are asked by the Commissioners of Owen County until noon, Sept. 30, for the construction of a courthouse. J. T. Johnson & Co., 1212 State Life Bldg., Indianapolis, are Archs.

BLOOMINGTON, IND.—The Trustees of the Indiana University have awarded a contract for the construction of the proposed Science Hall to ENGLISH BROS., of Champaign, Ill., at $70,816.

DETROIT, MICH.—Press reports state that on Sept. 14 the Common Council adopted an ordinance embodying the terms of agreement between the city and the Michigan Central R. R. Co. in regard to the erection by the latter of a depot and terminals to cost $2,000,000. The railroad is given 60 days in which to accept. As the company's officials have approved most of the agreement, the erection of the depot is expected to begin soon. G. H. Webb, Detroit, is Ch. Engr.; Charles Carr is Supt. of Bldgs., Jackson, Mich.

CHICAGO, ILL.—The Chicago Title & Trust Co. is to supplant its present 16-story building at 100 Washington St. by the construction of a 22-story building covering 100 ft. of frontage adjoining on the east, the cost of which will approximate $1,250,000. We are officially advised that Holabird & Roche, Monadnock Bldg., are Archs.

Selz, Schwab & Co., shoe dealers, 144 Market St., have purchased the building and leased the land on which it stands at 126 to 134 Market St. The land has a frontage on Market St. of 100 ft. The lot extends back 273 ft. to the river, on which there is a dock frontage of 100 ft. The front part of the lot is improved with a 6-story and basement brick building, extending back 150 ft. to a 30-ft. court. On the rear of the court there is a 4-story brick building. Both structures were erected several years ago and are occupied by publishing concerns. Selz, Schwab & Co. plan to spend $50,000 on improvements on the 6-story building as soon as it is vacated by the present tenants. It will be supplanted within a few years by a 16-story build, preliminary plans for which have been made. This proposed structure will cost about $1,500,000.

*FORT SHERIDAN, ILL.—Bids are asked by Capt. M. E. Saville, Constr. Q. M., until noon, Oct. 14, for the construction of one double set of non-commissioned officers quarters with plumbing, electric lighting and hot air heating; one brick stable with electric lighting and plumbing; one brick blacksmith shop; one addition to wagon shed, at Fort Sheridan, Ill.

WAUSAU, WIS.—The Common Council is considering plans by Joseph P. Jogerst, Arch., 308 Third St., Wausau, and Van Ryn & DeGelleke, Archs., Caswell Block, Milwaukee, for a city hall to cost $60,000.

MILWAUKEE, WIS.—H. Messmer & Son, Arch., 473 East Water St., have awarded contracts for a $50,000 store and apartment building to be erected for George Schmidt, at 35th St. and Lisbon Ave., as follows: Mason, WILLIAM BUBLITZ; carpenter, AUGUST BUCHHOLZ, both of Milwaukee.

The Common Council has accepted the offer of Louis Lenz, Arch., Milwaukee, for plans and specifications for a public comfort station to be built on Grand Ave. bridge.

The County Board has awarded additional contracts on readvertised bids for the proposed $90,000 Juvenile Court building: Concrete construction, MADSON, CHRISTENSEN & INGBRETSON, 379 31st St., Milwaukee, $17,078; electrical work, HERMAN ANDRAE ELECTRICAL CO., $2,100; heating, W. A. BOWERS HEATING CO., Milwaukee, $9,673.

ST. PAUL, MINN.—We are officially advised that bids will be asked for about Oct. 1 by the Board of School Inspectors, C. W. Gordon, St. Paul, Pres., for the general construction of the proposed West End High School. It will be three stories high, of reinforced concrete fireproof construction and will be built at Lexington Boulevard and Marshall Ave. Clarence H. Johnston, Manhattan Bldg., St. Paul, is Arch. Cost, $375,000.

ANOKA, MINN.—F. C. NORLANDER, Bradley and Lawson Sts., St. Paul, Minn., has been awrded the contract for the construction of Cottage No. 4 at the State Asylum here. It will be two stories high, of brick and cut stone, fireproof construction. P. M. Ringdal is Chn. of the State Bd. of Control, St. Paul and C. H. Johnston, Manhattan Bldg., St. Paul, is Arch. Cost, $45,000.

HASTINGS, MINN.—The [illegible] Board of Control, P. M. Ringdal, [illegible] St. Paul, Minn., awarded the contract [illegible] the general construction of a 2-story [illegible] brick and cut stone cottage for men [illegible] the State Asylum here to N. P. FRANDICOTT Bldg., St. Paul, Minn. [illegible] $41,744. C. H. Johnston, Manhattan Bldg., St. Paul, is Arch.

LEAD, S. DAK.—Bids are [illegible] until 2 p. m., Oct. 26, by James Knox [illegible], Superv. Arch., Treasury Dept., Washington, D. C., for construction (complete) of [illegible] U. S. post-office at Lead.

GREAT FALLS, MONT.—We are officially advised that work is to begin on the $75,000 depot of the Great Northern Ry. Co. at this town. Plans have been prepared and bids called for. A. H. Hogeland is Engr., St. Paul.

ST. LOUIS, MO.—An apartment house will be erected under the supervision of the Anderson-Stocke-Buermann Realty Co., 115 Chestnut St. The building will be in three sections and will cost $100,000. It will be located at the northeast corner of Hamilton Ave. and Page Boulevard. The Stewart & Hay Building Co., owners of the property, will put up the structure, and the Anderson-Stocke-Buermann Co. will manage the apartments after completion. The plans and specifications were prepared by Louis Hormann, Arch., Real Estate Bldg. Work will begin immediately and will be completed as soon as possible, so that the building can be tenanted before the winter sets in. Two of the sections of the building will front on Page Boulevard and one on Hamilton Ave. Each part will consist of six apartments of four rooms and a bath, steam heat, combination fixtures, gas ranges, refrigerators, shades, etc.

Contracts have been let to the HARTSBORN-BARBER REALTY & BUILDING CO. for the building of the proposed Colonial Theater on the north side of Delmar Ave. east of Euclid Ave. It is to be erected and managed by the Colonial Amusement Co., recently incorporated with a capital of $50,000. The work is to be completed in order that the opening may take place in December. The building will be three stories high and the exterior is to be of enameled brick with cut stone trimmings. It will be fireproof, the construction being reinforced concrete. It will cover a lot 60 × 167 ft. and will have a seating capacity of 1,200. The plans were drawn by Charles R. Greene. The stage will be 30 × 60 ft. and the interior finish is to be artistic in every way.

FULTON, MO.—It is proposed to rebuild the main building of the Westminster College at Fulton which was burned recently. Among the members of the Board of Trustees are: John F. Green, Rialto Bldg.; George T. Coxhead, T. S. McPheeters, Rev. S. J. Nicolls, S. J. Fisher, C. McC. Thompson, Rev. W. J. McKittrick, Rev. J. F. Cannon, B. F. Edwards, John A. Holmes, Judge Selden P. Spencer, Commonwealth Trust Bldg., and Rev. H. H. Gregg, all of St. Louis, Mo.

SAN ANGELO, TEX.—Bids were received as follows on Sept. 16 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at San Angelo, Tex.: King Lumber Co., Charlottesville, Va., $119,000; John Bardon, Fort Worth, Tex., $122,500.

AUSTIN, TEX.—The plans and specifications of C. H. Page & Bro., Archs., 505 Congress Ave., Austin, have been accepted by the American National Bank of Austin. The building is to be eight stories in height, with a basement for a billiard hall, barber shop, cafe, etc., and on the top floor of the building, a roof garden. The building is to cost $400,000. Work will commence Oct. 1. Maj. Geo. W. Littlefield, Pres. of the bank, is back of the enterprise.

*EAGLE PASS, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Nov. 1, for constructing the U. S. post-office at Eagle Pass.

SANTA ROSA, CAL.—The Supervisors received bids Sept. 2 for the Sonoma County court-house. Six bids were received. The bid of the Rucker-Fuller Co., of San Francisco, was the lowest, the price being $64,080 for steel and wood. The other bids were: Library Bureau, steel, $47,800, wood, $50,000; H. S. Crocker Co., steel and wood, $47,000; C. F. Weber & Co., steel, $46,000, wood, $29,557; Finch Jail & Metal Co., steel and wood, $64,947; A. H. Andrews & Co., steel, $40,710, wood, $25,850.

MENLO PARK, CAL.—The Rev. P. W. Riodan, Archbishop of San Francisco, has awarded a contract to CHARLES A. BRADY for the erection of a new wing to the senior college of St. Patrick's Theological Seminary. The contract price is $60,000 and the work must be completed in 150 working days. The contract includes the concrete work, steel, brick, terra cotta, granite, stone work, galvanized iron, sheet metal roofing, slate, copper and lead work, painting and glass work. The wing is necessary to accommodate the large number of senior students.

SAN FRANCISCO, CAL.—The Garfield School to be erected will contain 16 rooms. It was not called for in the bond issue. Some of the money derived from the old bond issue and some from the new issue will pay the cost, which will be $120,000. The plans have been prepared in the City Architect's office. The structure will be of the reinforced concrete type in the basement and a heavy wooden frame will be superimposed, which will be covered with wire and plaster with galvanized iron window frames. At each end of the building there will be two staircases, fireproof in construction and divided from the main building by fireproof wire and glass, and doors opening toward the staircases. The plans were drawn by the late Newton J. Tharp.

The McKinley School will stand at 14th and Castro Sts. The cost as estimated is $100,000. In structural features it resembles the Garfield School, but there are differences in the facades and in other exterior matters.

The McKinley and Garfield schools will be almost identical in their interiors and they will be the same size.

At a recent meeting of the Board of Public Works contracts for the construction of the Sheridan School were awarded as follows: HENNING & BURKE, general construction, $8,444; A. C. THODE CO., electric wiring, $1,711; AMERICAN AIR CLEANING CO., vacuum cleaning, $850; JOHN G. SUTTON CO., heating and ventilating, $11,822.

LONG BEACH, CAL.—E. B. Campbell, of Bakersfield, Cal., has purchased the Byde-a-Wyle Theater on the Strand and five lots adjoining. The present theater will be razed and a modern theater erected.

SAN DIEGO, CAL.—It is reported that Charles H. Josslyn has leased his property on Sixth St. for 45 years to an eastern firm who will erect a 6-story brick building to cost $60,000.

BERKELEY, CAL.—It is stated that the Y. M. C. A. intends to erect a building here to cost about $100,000. The structure will be three stories in height with a basement. There will be baths, bowling alleys and locker rooms in the basement, the gymnasium, handball court and administrative offices in the first floor, lecture and class rooms in the second floor and dormitories in the top floor.

SANTA BARBARA, CAL.—A federal building and post-office, to cost $100,000, will be erected soon. James Knox Taylor is Supervy. Arch., Treasury Dept., Washington, D. C.

BOISE, IDAHO.—Bids are asked until 3 p. m., Sept. 28, by the Capitol Building Commission for the third story masonry, roof covering and a portion of the dome on the Capitol Building. J. H. Brady is Governor; H. E. Quigley is Supt.

WATER SUPPLY—IRRIGATION.

WINTHROP, MASS.—Bids will be received until 8 p. m., Oct. 2, by the Water Commissioners, Wesley Tyler, Chn., for furnishing and erecting a steel standpipe, 40 × 100 ft., at Great Head, foundations to have been previously constructed. Whitman & Howard are Engrs., 220 Devonshire St., Boston.

Bids are asked until 8 p. m., Sept. 25, by the Water Commissioners for building foundations for standpipe, gate-house and appurtenant work.

HADLEY, MASS.—KIELY & GLEASON, of Northampton, Mass., have been awarded contract at $6,589, for laying pipe line and the construction of a reservoir for the Hadley Water Supply District.

NEW BRITAIN, CONN.—Bids have been received as follows by the Board of Water Commissioners for raising Shuttle Meadow dam: Antonio Lambo, Waterbury, $8,221; Hartford Paving & Construction Co., Hartford, $8,530; C. B. Cadwell, New Britain, $11,745; Connecticut Contracting Co., New Britain, $13,822; J. D. Kelly, Dorchester, Mass., $14,164; J. E. Downes, New Britain, $19,027; F. A. Wyman, Jr., Boston, Mass., $16,300; Aberthaw Construction Co., Boston, $13,550.

DERBY, CONN.—The Birmingham Water Co., it is reported, has awarded contract for constructing the dam for the reservoir which is to be built on Great Hill to the RYAN-UNMACK CO., of New Haven, the dam to be 240 ft. high at the top and 28 ft. thick at bottom of spillway.

NEW YORK, N. Y.—Bids were received as follows on Sept. 15 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for (a) furnishing and delivering and erecting a new discharge main with all its appurtenances complete, and ready for operation in and from the engine room basement of the 179th St. pumping station to Amsterdam Ave., Boro. Manhattan, (b) furnishing, delivering and laying water mains in First, Third, Fourth, Fifth and Sixth Sts., Boro. Manhattan, (c) furnishing, delivering and erecting a new discharge main, with all its appurtenances complete, and ready for operation in and from the engine room basement of the 179th St. pumping station to Amsterdam Ave., Boro. Manhattan, (d) furnishing and delivering water mains in Eighth, Ninth, Tenth, Eleventh, Twelfth and Fifteenth Sts., Boro. Manhattan: (a) William H. Masterson, 177th St. and Walton Ave., New York, $14,737; Henry E. Fox, 81 E. 125th St., New York, $14,989; Wilton Construction Co., $16,594; F. N. Lewis, $14,765; (b) Sonaci Contracting Co., 170 Broadway, New York, $104,645; O'Leary & Flannigan, $169,105; Melrose Construction Co., $115,843; Atlanta Contracting Co., $123,715; Hanover Contracting Co., $119,423; Louis D. Gregory, $119,862; Wilton Construction Co., $125,928; Roger & Haggerty, $111,749; (c) William H. Masterson, 177th St. and Walton Ave., $19,637; Henry E. Fox, 81 E. 125th St., New York, $24,739; Wilton Construction Co., $21,294; F. N. Lewis, $19,665; (d) Rogers & Haggerty, 296 Gold St., Brooklyn, $130,623; L. D. Gregory, $154,326; Hanover Contracting Co., $140,338; Atlanta Contracting Co., $147,127; Melrose Construction Co., $157,656; John H. Roach, $159,273; Soraci Contracting Co., $131,074.

Bids were also received as follows for furnishing, delivering and erecting pumping plants complete at Heek Creek, Horse Creek and Baldwin pumping stations, Long Island: Lord Electric Co., 213 W. 40th St., New York, $16,884 each station; D'Olier Engineering Co., 121 S. Eleventh St., Philadelphia, Pa., $16,923 each station; Epping Carpenter, 90 West St., New York, $17,300 each station; H. E. Fox, 81 E. 125th St., New York, $17,300 each station; H. R. Worthington, 115 Broadway, New York, $16,190 alternate.

*COMSTOCK, N. Y.—Bids are asked until noon, Oct. 5, by C. V. Collins, Supt. State Prisons, Albany, for the construction of a water-supply system at the Great Meadow prison, Comstock.

ALBANY, N. Y.—The bids received by the Board of Contract and Suply on Sept. 20 for furnishing c.-i. pipes and special castings to the Water Bureau, were: (a) cast-iron pipes; (b) special castings: Camden Iron Works, Camden, N. J., (a) $22.80 per ton, (b) $70 per ton; U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York, (a) $24.20, (b) $50; CHARLES MILLAR & SON CO., Utica, N. Y., (a) $22.75, (b) $50 (awarded contract). H. J. Deutchbein is Supt. Water Bureau.

*ATLANTIC CITY, N. J.—Bids will be received by the Board of Water Commissioners until 2.30 p. m., Oct. 17, for the construction of a 48-in. wood stave force main from the Absecon pumping station to the city, a distance of about 25,500 ft. L. Van Gilder is Engr. and Supt.

AVON-BY-THE-SEA, N. J.—Bids will be received by the Borough Council until Sept. 27 for extending the water system a distance of about 6,100 ft. J. H. Emblem is Engr., Avon-by-the-Sea.; Leon R. Taylor is Boro. Clk.

ARLINGTON, N. J.—The Mayor and Borough Council of North Arlington have awarded the water contract to the JERSEY CITY WATER SUPPLY CO., Paterson, at $69 per million gallons up to 3,000,000 gallons a day, and $40 per million gallons when as much as 12,000,000 gallons are used daily.

SPANGLER, PA.—POLO AZZARA, of Barnesboro, has been awarded the contract for the construction of a large reservoir on Brown's Run, near Spangler, for the Spangler Water Co. The new reservoir is to supply Barnesboro with water.

HARRISBURG, PA.—Surveys have been completed for the installation of a high-service water supply plant for portions of the city at too great elevations to be supplied from the main reservoir. Charles A. Hague is Consulting Engr., 52 Broadway, New York.

BALTIMORE, MD.—Daniel B. Banks, Consulting Engr., Maryland Savings Bank Bldg., is preparing specifications for the construction of the city's pipe-line station to be located on South St., between Pratt and Lombard Sts. Bids will probably be asked soon.

TAKOMA (Takoma Park, D. C., post-office), MD.—The citizens on Sept. 13 voted in favor of issuing $10,000 of bonds to install a filtration plant. No date has been set for receiving bids for construction.

*CHRISTIANSBURG, VA.—Bids are asked by John R. Johnson, Chn. Special Water Com., Christiansburg, until 8 o'clock p. m., Oct. 6, for the laying complete of the following approximate quantities of c.-i. pipes: 10-in., 1.5 miles; 8-in., 2.4 miles; 6-in., 2.2 miles, and short runs of other sizes. Specifications may be obtained by applying to Howard Murphy, Engr., Christiansburg.

NEW MARTINSVILLE, W. VA.—The city has voted $12,000 of bonds for improvements to the water-works.

NEW ORLEANS, LA.—Bids will be received until Sept. 23 by the Sewerage and Water Board, F. S. Shields, Secy., for furnishing a six months' supply of brass and galvanized iron fittings to be used in making water-works house connections.

JOHNSON CITY, TENN.—The city voted on Sept. 11 to construct a gravity water-works system, securing water from mountain springs eleven miles from the city, with a capacity of 7,000,000 gallons of water daily, pressure for fire protection, 110 lbs. Estimated cost, $300,000.

BINGHAMTON, TENN.—The city has awarded contract at $16,000 to P. H. PORTER, Louisville, Ky., for the construction of the water system; J. A. Omberg, Jr., Goodwyn Institute, Memphis, Tenn., is Engr.

SANDUSKY, OHIO.—Bids will be received until Sept. 29 by the Board of Public Service, Jacob F. Leser, Pres., for a duplex compound condensing Worthington pumping engine with a capacity to raise 3,000,000 gallons of water in 24 hrs. 200 ft. above the water in the pump well.

TERRACE PARK, OHIO.—Bids will be received by the Board of Trustees of Public Affairs until noon, Oct. 1, for furnishing the necessary labor and materials for laying water pipes in certain of the streets and alleys and other public places. W. E. Williamson is Clk.

CINCINNATI, OHIO.—Bids will be received until Sept. 27 by John J. Wenner, Clk. Bd. Pub. Ser., for furnishing and delivering c.-i. pipes and special castings for the water mains required for the distribution system of the city.

MADISON, IND.—Contract for sinking six wells in sand bar Ohio River, bids opened on Sept. 3, has been awarded by the city to the MADISON MACHINE CO., Madison, at $4,200. George N. Harper is City Clk.

*DETROIT, MICH.—Bids were received on Sept. 14 by the Board of Water Commissioners for three pumping engines at the new pumping station, each engine to be of 30,000,000-gals. capacity. The bids follow: Wisconsin Engine Co., $455,100, $456,700 and $465,000, each figure being for the three, but each for a different type; Allis-Chalmers Co., Milwaukee, Wis., $416,200; Holly Mfg. Co., Roberts Ave. and Clinton St., Buffalo, N. Y., $413,432, $438,000 and $492,900; Hooven-Retchler Co., Hamilton, Ohio, $327,000; Bethlehem Steel Co., South Bethlehem, Pa., $384,000, $389,400, $391,500, $396,000, $413,100 and $418,500; Camden Iron Works, Ninth and Norris Sts., Philadelphia, Pa., $438,000 and $460,000; William Tod Co., Youngstown, Ohio, $435,000.

Bids were also received as follows for laying a 12-in. main from the pumping station to Belle Isle, about 3,000 ft.: B. G. McCullough and Henry Confrey, Port Huron, $8,260; Cornelius Cronin, Grosse Pointe, $19,420; Schweikart Dredging Co., Detroit, $22,350; John Ginsel Co., Detroit, $11,000; Detroit Dredging Co., $22,800; M. Rabbitt & Son, Toledo, Ohio, $14,850, $14,700 and $13,250, according to the quality of pipe used. A. Q. Thatcher, Toledo, $15,450.

FREEBURG, ILL.—Bids are asked until 8 p. m., Oct. 4, by the Board of Trustees, F. X. Helligenstein, Pres., for the improvement and extension of the water-works system. The work includes the following: Furnishing and laying approximately 2,000 ft. of c.-i. pipe, 4 to 8-in., with valves and specials; furnishing and erecting a steel storage tank of 50,000 gallons capacity. Harper Bros., 21 N. Main St., East St. Louis, Ill., are Engrs.

EAU CLAIRE, WIS.—Bids will be received until Sept. 25 by the Water Board, W. H. Willard, Acting Secy., for laying about 1½ miles of 6-in. water pipe, city to furnish material.

MARSHALLTOWN, IOWA.—The City Council has awarded contract for constructing the concrete dam over the Iowa River, the retaining walls and the concrete foundations for the new pumping station to the CLEARY-WHITE CONSTRUCTION CO., Chicago, Ill., at $24,665.

WOODWARD, IOWA.—The citizens on Sept. 6 voted in favor of issuing $9,000 of bonds for the construction of a water-works system, contract for which has been awarded. H. R. Naider is City Clk.

SEYMOUR, IOWA.—Bids will be received until Sept. 27 by the Mayor and City Council for pumping machinery, c.-i. water pipe, hydrants, valves, specials, etc., f. o. b. cars Seymour, or delivered on the ground, for a system of water-works. George Cadogan Morgan, 169 Jackson Boulevard, Chicago, Ill., is Engr.

COLD SPRING, MINN.—The COOK CONSTRUCTION CO., Des Moines, Iowa, has been awarded contract for the construction of a water-works system here, at $13,975. Oscar Claussen, St. Paul, Minn., is Engr.; Michael Kummer is Village Clk.

BRAINERD, MINN.—The citizens have voted to issue $12,000 of water-works bonds. Bids for construction will be asked at once.

PRATT, KAN.—Improvements will be made to the water-works system here. E. W. Jones, of Pratt, is Engr. Bids will be received for construction in October.

NELSON, NEB.—We are officially advised that this town has voted $36,000 of bonds for the construction of a water-works system. Charles H. Meeker, McCook, Neb., is Engr.

CARTHAGE, MO.—Contract for the concrete reservoir for the municipal water-works system was let on Sept. 8 by the Board of Public Works to TANGNER & BROSIUS at $8,350, 90 days. The reservoir is to be of 1,500,000 gallons capacity, oval in form, 146 ft. in length, and 115 ft. wide. The depth will be 13½ ft., calculated to carry water to the depth of 12 ft.

*KANSAS CITY, MO.—Bids will be received by the Board of Fire and Water Commissioners, until 2 o'clock p. m., Oct. 21, from well established and successful designers and builders of engines and centrifugal pumps, directly or through an authorized representative, for the construction, delivery and erection of a centrifugal pump, direct connected to a vertical, crank and fly-wheel, cross-compound, condensing engine, in every way complete for continuous service, except condenser, upon proper foundation provided by the city, in the present building at Quindaro pumping station, Quindaro, Kan. For details see advertisement in this issue. S. J. Armstrong is Secy.

*DALLAS, TEX.—Bids will be received by J. B. Winslett, City Secy., until 3 p. m., Nov. 10, for one pumping engine of the vertical triple expansion, condensing, crank and fly-wheel, self-contained type with a nominal capacity of 15,000,000 gallons in 24 hours, to be erected by the bidder. Specifications on file in the office of the City Secretary, copies of which will be furnished upon application.

WETUMKA, OKLA.—The Federal Engineering & Contracting Co., Okmulgee, Okla., awarded contract at $40,000 to construct city water-works. Will ask for bids on materials and equipment.

HOMINY, OKLA.—The city has awarded contract to J. L. McFARLAND, Dewey, Okla., for installing water and sewer systems at $35,000.

DENVER, COLO.—Thomas Daley and W. H. Moore, it is reported, have applied to the State Land Board for 30,000 acres of land in Pueblo County for irrigation purposes.

DENVER, COLO.—According to the "Denver Post," Colorado, Utah, California, Nevada and Arizona lands will be irrigated with water supplied by a large system of reservoirs and canals which the Ireland Empire Irrigation & Power Co. purposes to construct. The reservoir will cover 56,000 acres of land and will be located in Routt County. It will be fed by the waters of Bear and Snake Rivers. A dam 210 ft. high will be required to hold back the waters. It is planned to run the water into Green River, which empties into the Colorado River in Utah. At convenient points along the streams dams will be erected and subsidiary reservoirs constructed for the irrigation of lands in various states and territories. Most of the water will be used in the southern part of Arizona. The incorporators are: James R. Kilpatrick, C. E., of Craig, Colo.; Elmer, Bisbee, of Minneapolis; Charles N. Miller, and William H. Dickson, Atty., Denver.

NATCHES, WASH.—D. H. Traphagen, of Seattle, is the lowest bidder for the construction of 18 miles of laterals on the Tieton unit of the Yakima irrigation project near Natches, at $31,500. Amount of earth to be moved, 112,000 yds.

SPOKANE, WASH.—The following bids for the construction of the new reservoir in the southeastern part of city were opened on Sept. 7: Foster-Hindle-Worel Co., $128,000; John T. Huetter, $134,000; Beebe-Bowles Co., $176,700; James C. Broad, $158,565; George Cooke & Sons, $157,000; John B. Costello, $149,000. Estimated cost, $138,000.

HILLYARD, WASH.—It was decided by the City Council on Sept. 7 to construct a reservoir with a capacity of 2,000,000 gallons this year. The reservoir will be 50 ft. wide by 125 ft. long, with a depth of 10 ft. Estimated cost, $6,000.

FREEWATER, ORE.—A. H. Sutherland, of the Sutherland Plumbing Co., of Walla Walla, Wash., is preparing plans and specifications for a municipal water system for this town.

SACRAMENTO, CAL.—The State Engineer has awarded contract to W. H. BOOTH, of Santa Cruz, to install a sewer and water system in Redwood Park at $5,000.

SAN FRANCISCO, CAL.—The Board of Public Works has awarded contract to construct six reinforced-concrete fire cisterns to the KEYSTONE CONSTRUCTION CO., 417 Montgomery St., San Francisco, at $30,000.

COLUSA, CAL.—The citizens have voted $100,000 of bonds for the construction of water-works and sewerage systems.

SAN LUIS OBISPO, CAL.—Bids have been received as follows by the City Trustees for furnishing water pipe, lead and fittings: U. S. CAST IRON PIPE & FOUNDRY CO., Monadnock Bldg., San Francisco, $11,919 (awarded contract); Crane Co., $12,129; Bovnton Co., bid not in proper form.

DOUGLAS, ARIZ.—Bids will be received by H. E. Berner, Clk. Bd. County Supervisors, Tombstone, until Oct. 4, for sinking a 6-in. well, cased 150 ft. deep, on the Poor Farm, near here.

SHELLEY, IDAHO.—The City Council has awarded contract to the N. D. McCUTCHEON CO., of Idaho Falls, for the construction of a water-works system consisting of a reservoir on the butte east of town, with capacity of 60,000 gallons, an 8-in. main to town and two miles of 2-in. galvanized pipe, with all necessary hydrants, valves, etc. Estimated cost, $10,000; and to A. BLOMBERG, for driving a 6-in. well 250 ft. deep, guaranteeing a water capacity of 50,000 gallons per day, at $3 per ft. The system will be operated with a 20-HP. gasoline engine temporarily until electrical power can be obtained.

GUADALAJARA, MEX.—See item under Light and Power Plants.

SEWERAGE.

QUINCY, MASS.—The City Council is considering, it is reported, the construction of a sewerage system and sewage disposal plant at Hough's Neck and Germantown.

*BOSTON, MASS.—Bids will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Pl., Boston, until 2.30 p. m., Oct. 4, for constructing about 6,000 ft. of open channel, 3,450 ft. of 33-in. × 36-in. concrete drain, and 960 ft. of 24-in vitrified clay pipe drain, together with the necessary catch basins, culverts, branch drains, manholes and other appurtenances, in Framingham, Natick and Wayland, Mass. William N. Davenport is Secy.

NEW HAVEN, CONN.—The Committee on Sewers and Squares is considering the enlarging of the Springside Home filtration beds. Estimated cost, about $7,000.

BROOKLYN, N. Y.—The State Architect, Albany, has awarded contract for an addition to the sewage disposal plant of the Kings County State Hospital to the ROSS-BUSH CO., 1328 Broadway, New York, at $3,000. F. B. Ware is State Arch.

*BATAVIA, N. Y.—The time for receiving bids for the construction of a system of sewers has been extended from Sept. 25 to Oct. 14, the contracts to be divided as follows: Contract No. 1, approximately 30 miles of sanitary sewers and appurtenances; contract No. 2, approximately 4,200 ft. of 16-in. c.-i. force main; contract No. 3, a pumping well and fittings; contract No. 4, approximately 4,000 ft. of storm water and effluent sewer; contract No. 5, an extension to the present municipal building. There will also be required one 100-HP. Corliss engine, one 250-HP. Scotch marine boiler, three centrifugal pumps and sundries. Charles Hoopes is Resident Engr.

AVON-BY-THE-SEA, N. J.—Bids will be received until Sept. 27 by the Borough Council for extending the sewerage system a distance of 1,400 ft. J. H. Emblen is Engr., Avon-by-the-Sea.

BRIDGETON, N. J.—Clyde Potts, 17 Battery Pl., New York, has been engaged to prepare plans for the construction of sewers 12 to 20 miles, and sewage disposal works here.

LINDEN, N. J.—WADE & CALLAGHAN, of Elizabeth, have been awarded contract by the Borough Committee, at $35,000, for six miles of lateral sewers, to connect with the trunk sewer being built in the borough.

*BALTIMORE, MD.—T. WALLACE REILLY, of Baltimore, has been awarded by the city contract for the construction of the trunk sewers in Forest Park, Sanitary Contract No. 40, Baltimore, at $80,000. Bids were opened on Sept. 1. List of bidders noted on Sept. 16.

WASHINGTON, D. C.—Contract for constructing section of West Brightwood trunk sewer in Saul's Addition, bids opened on Aug. 30, has been awarded to R. J. BEALL CONSTRUCTION CO., 1217 F St. N. W., at $13,335.

CHATTANOOGA, TENN.—Plans have been completed for the construction of the cross-town sewer, $100,000 of bonds for which have been sold.

LOUISVILLE, KY.—E. A. BAKER & SON have been awarded contract by the Sewerage Commissioners, at $15,000, for constructing sewers in Dumesnil St., between 15th and 17th Sts. Contract No. 52. Bids were opened on Sept. 3. J. B. F. Breed is Ch. Engr.

DAYTON, OHIO.—Bids will be received until Sept. 27 by Wm. A. Budroe, Clk. Bd. Pub. Service, for constructing about 2,741 lin. ft. 24, 18, 15 and 12-in. vitrified pipe sewers in Hartford and Costello Sts.

CANTON, OHIO.—Bids will be received until Sept. 24 by the Board of Public Service for constructing sewers in Cedar, Clifton and four other streets.

ALLIANCE, OHIO.—The main trunk sewer emptying into the Cuyahoga River will be extended two miles further north in the river.

GARRETT, IND.—J. O. LANDIS, of Garrett, has secured the contract, it is reported, for constructing a sewer here, at $27,682.

GREENCASTLE, IND.—The Council has accepted the plans for the construction of the sewer system prepared by Riggs & Sherman, of Toledo, Ohio, Consulting Engr.

PRINCETON, IND.—L. S. KELL & CO. were awarded contract on Sept. 11 by the City Council for the construction of 912-ft. addition to the sewer in West Chestnut St. and for constructing two concrete culverts, one in South Main St., and the other in South Hart St., at $7,647.

FLINT, MICH.—Contracts for pipe sewers, bids opened on Sept. 7, by the city, have been awarded as follows: To W. W. HATCH & SONS CO., of Detroit, Dayton and Warren St. sewers, at $2,200 each; A. P. SOUTHWORTH, of Adrian, Fifth, Sixth and Avon St. sewers, at $8,885. D. F. Newcombe is City Clk.

DANVILLE, ILL.—Bids will be received by the city until Oct. 1 for sewer improvements. Estimated cost, $4,000. W. E. Weiser is City Engr.

FORT DODGE, IOWA.—O. P. HERRICK, Des Moines, Iowa, has received contract, at about $17,000, for the construction of a sanitary sewer system here.

CHEROKEE, IOWA.—Contract for constructing about 20,000 ft. of 6, 8 and 10-in. vitrified pipe sanitary sewers, bids opened on Sept. 7, has been awarded to FRASER & DANFORTH, Rochester, Minn., at $33,437.

STORM LAKE, IOWA.—We are officially advised that contracts were awarded on Sept. 7 by the City Council, Iowa Engineering Co., of Clinton, Iowa, Engrs., as follows: For the construction of 7,500 ft. of 15-in. pipe and disposal plant to the COOK CONSTRUCTION CO., of Des Moines, Iowa, at $9,489; for seven miles of 8 to 15-in. sewers to LYTLE CONSTRUCTION CO., of Sioux City, Iowa.

NEWTON, KAN.—Bids will be received until Sept. 20 by A. Martin, City Clk., for constructing sewers in districts 2 and 3. Separate bids will be received for a 150,000-gallon reinforced-concrete septic tank. McLane & Myers, of Hutchinson, Kan., are Engrs.

RED LODGE, MONT.—L. W. SCHRUTH, of Fargo, has been awarded contract for constructing sewers in district No. 1 at $8,539. Other bidders were Plunkett & Gesat, $9,651; Peter Oren, $9,481.

WEBB CITY, MO.—Bids are asked until 5 p. m., Oct. 4, by A. J. McKenzie, City Engr., for the construction of 11,334 lin. ft. of main outfall sewer.

ST. JOSEPH, MO.—C. W. DILLINGHAM has been awarded contract by the Board of Public Works, at $14,985, for the extension of the sewer in Grand Ave.

LITTLE ROCK, ARK.—Contract for the sewer in District 55 in the Eighth Ward has been let to the PFEIFER-HIMSTEDT PLUMBING CO., at $4,000.

CORPUS CHRISTI, TEX.—The J. W. Maxcy Co., of Houston, Tex., has been retained as engineers for sewerage and sewage disposal here. Estimated cost, $130,000.

OKLAHOMA CITY, OKLA.—Contract for constructing a sanitary lateral sewer in blocks 22 and 23, bids opened on Sept. 7, has been awarded by the city to F. R. STONE. Robert Carman is City Clk.

HOMINY, OKLA.—See item under Water Supply—Irrigation.

MT. VERNON, WASH.—Contract has not been let for constructing a sewer system here. Work has been readvertised and new bids are asked until Oct. 6. Estimated cost, $19,000. Dunn & Dunn, of Seattle, are Engrs.

ELMHURST, CAL.—Sewer bonds for $75,000 have been sold and plans are being prepared for construction of a sewer system here.

SAN FRANCISCO, CAL.—Seven bids for the construction of the H St. sewer from 20th to 40th Aves. were received on Sept. 8 by the Board of Public Works. The lowest bidder was J. A. Dowling, Russ Bldg., San Francisco. Estimated cost, $90,000. Marsden Manson is City Engr.

SAN LEANDRO, CAL.—The contract for the construction of the outlet sewer through the recently annexed territory was awarded to JOHN HEAFEY, of Berkeley, Cal., by the Board of Trustees on Sept. 7 at $11,945, the lowest bid. Seven other bids, ranging from $18,240 to $12,393, were received from Scott & Farley, M. Escorse, F. E. Nelson, M. Murphy, W. J. Schmidt, P. Mathieson and Charles Vincent.

COLUSA, CAL.—See item under Water Supply—Irrigation.

STREETS AND ROADS.

HOOKSET, N. H.—We are officially advised that contracts for constructing 7,000 ft. of trap rock road here and ¾ mile of gravel road at Rye, have been awarded to C. A. BAILEY, of Suncook, N. H., and JOHN A. GAFFEY, of Medford, Mass., respectively. Bids were opened on Sept. 10 by A. W. Dean, State Engr., Concord.

*FORT ADAMS, MASS.—We are officially advised that Antony Cefalo, Boston, Mass., submitted the only bid on Sept. 15 to Capt. R. H. Rolfe, Constructing Q. M., U. S. A., for the construction of roads and walks and necessary grading at $10,834.

BOSTON, MASS.—We are officially advised that W. H. ELLIS, 17 Milk St., Boston, has been awarded contract, bids opened on Aug. 26, by the Charles River Basin Commission for surfacing a portion of the Charles River dam (east of lock) at $6,374. Noted on Sept. 2.

SMITHFIELD, R. I.—Bids will be received until Sept. 29 by the State Board of Public Roads, Providence, John H. Edwards, Chn., for constructing a section of state highway in the towns of North Smithfield and Smithfield, about 47,520 ft. in length.

HARTFORD, CONN.—Bids for the construction of state road work will be received by the State Highway Commissioner, Capitol, until 2 p. m., Sept. 27, as follows: Town of Preston, 12,500 lin. ft. gravel-telford road on Shetticket Turnpike, including two 12-in. c.-i. culverts and four 20-in., one 18-in., and two 15-in. tile culverts. Town of Newtown, 27,800 lin. ft. gravel-telford road on the Bridgeport and Newtown Turnpike, including two 18-in., eight 15-in., eleven 24-in. and four 20-in. tile culverts. Town of Bethel, 650 lin. ft. gravel-telford road.

Bids for the construction of state road work were received at the office of the State Highway Commissioner on Sept. 18, as follows: Town of Litchfield, 6,115 lin. ft. gravel-telford, including five 18-in., one 12-in., two 24-in. and one 20-in. tile culverts and one reinforced-concrete culvert: Pierson Engineering & Construction Co., Bristol, $2.50 per lin. ft. for gravel, $3.25 for telford, 50 cts. per lin. ft. for rubble drain, 40 cts. per lin. ft. for rail, $4 per cu. yd. for masonry; Joseph Mascetti, Torrington, $2.83 for gravel, $3.80 for telford, $1.12 for drain, 40 cts. for rail, $4.50 for masonry; J. De Michel & Bro., Torrington, $2.75, $3.75, 45 cts., 40 cts., $5.50; Goodman & Trumbull, Litchfield, $2.80, $3.70, 75 cts., 45 cts., $5; town of New Hartford, 12,907 lin. ft. macadam-telford, including one 18-in., five 15-in., one 12-in. and four 24-in. tile culverts and two reinforced-concrete culverts; Lane Construction Corporation, Meriden, $1.88 for macadam, $2.48 for telford, 55 cts. for rail, 75 cts. for rubble drain, $5.50 for masonry; O. T. Benedict, Pittsfield, Mass., $2.19, $2.69, 35 cts., 80 cts., $6.

NEW YORK, N. Y.—Bids are asked by Allen N. Spooner, Comr of Docks, until noon, Sept. 29, for furnishing all the labor and materials required for preparing for and laying granite and iron slag block pavement on portions of the Marginal St., between Whitehall and Broad Sts., East River, under Class 1, and granite block pavement between Albany and Liberty Sts., North River, under Class 2, and between West 30th and West 33d Sts., North River, and for laying a granite crosswalk along the southerly line of West 22d St., North River, under Class 3.

NEW YORK, N. Y.—Contracts have been awarded by John F. Ahearn, Pres. of the Boro. of Manhatton, for regulating and repaving streets, bids for which were received on Aug. 31, as follows: No. 1. For regulating and repaving with sheet asphalt pavement on concrete foundation the roadway of Christopher St., from Waverley Pl. to the east side of Greenwich St. The SICILIAN ASPHALT PAVING CO., $1,613. No. 2. The roadway of Morton St., from the west side of Bleecker St. to the east side of Washington St. The UVALDE ASPHALT PAVING CO., $12,607. No. 3. The roadway of Charlton St., from the west side of Macdougal St. to the east side of Greenwich St. SICILIAN ASPHALT PAVING CO., $14,699. No. 4. The roadway of Vandam St., from the west side of Macdaugal St. to the east side of Varick St. UVALDE ASPHALT PAVING CO., $5,092. No. 5. The roadway of 38th St., from the west side of Eighth Ave. to the east side of Ninth Ave. SICILIAN ASPHALT PAVING CO., $7,643. No. 6. For regulating and repaving with asphalt block pavement on concrete foundation the roadway of Madison Ave., from the north side of 94th St. to the south side of 116th St. All bids were rejected. No. 7. The roadway of Fort Washington Ave., from the west side of Broadway to the south side of 181st St. HARLEM CONTRACTING CO., $77,944. No. 8. The roadway of 98th st., from the west side of Amsterdam Ave. to the east side of Broadway. All bids were rejected. No. 9. The roadway of 118th St., from the west side of Park Ave. to the east side of Fifth Ave. All bids were rejected. No. 10. The roadway of Second Ave., from the north side of 37th St. to the north side of 45th St., and from the north side of 53d St. to a point 66 ft. north of the north curb line of 58th St. All bids were rejected. No. 11. The roadway of Jumel Pl., from 167th St. to Edgecombe Road. HARLEM CONTRACTING CO., $7,355. No. 12. For regulating and paving with wood block pavement on concrete foundation the roadway of Lewis St., from the north side of Grand St. to the south side of Delancey St. U. S. WOOD PRESERVING CO., $7,984. No. 13. The roadway of Cannon St., from the north side of Rivington St. to the south side of Houston St. U. S. WOOD PRESERVING CO., $9,885. No. 14. The roadway of Second Ave., from the north side of 23d St. to the north side of 37th St., and from the south side of 48th St. to the north side of 53d St. U. S. WOOD PRESERVING CO., $97,711. No. 15. For regulating and repaving with granite block pavement on concrete foundation the roadway of Desbrosses St., from the west side of Hudson St. to the east side of West St. W. T. FITZGERALD, $9,648. No. 16. The roadway of Gansevoort St., from the west side of 13th St. to the east side of West St. The lowest bidder was RAFFERTY BROS., $17,618. No. 17. The roadway of Walker St., from the west side of Lafayette St. to the east side of West Broadway. RAFFERTY BROS., $14,543. No. 18. The roadway of New Chamber St., from the west side of Cherry St. to the east side of Park Row. RAFFERTY BROS., $27,869. No. 19. The roadway of Second Ave., from the north side of 45th St. to the south side of 48th St. RAFFERTY BROS., $13,200. No. 20. The roadway of 146th St., from a point 284.08 ft. west of Broadway to the easterly line of Riverside Drive extension. The lowest bidder was D. W. MORAN, $901. No. 21. For regulating, grading, curbing, flagging and paving with granite block pavement 149th St., from Broadway to Riverside Drive. The lowest bidder was the ATLANTIC CONTRACTING CO., $5,632. No. 22. For fencing proposed playground on Park Ave., from the north side of 120th St. to the south side of 124th St. No bids received.

NEW YORK, N. Y.—The following bids were received by Lawrence Gresser, Pres. Boro. of Queens, on Sept. 17, for regulating, grading, curbing and recurbing and repaving with sheet asphalt on a concrete foundation in Flushing Ave.: Uvalde Asphalt Paving Co., 1 Broadway, New York, $15,887; Standard Waterproofing & Conduit Co., 115 Broadway, New York, $13,833; Barber Asphalt Paving Co., 30 Church St., New York $14,941. On a Belgian block foundation in University Pl.: Uvalde Asphalt Paving Co., 1 Broadway, New York, $11,467; Standard Waterproofing & Conduit Co., $12,751; Barber Asphalt & Paving Co., 30 Church St., New York, $12,947.

Bids were received at the same time and place for furnishing and delivering 60,000 second-hand granite paving blocks: Henry Hesterberg, Flatbush, L. I., $24.98; Peace Bros., $34; Atlanta Contracting Co., $34; H. J. Muollen, $29.

Bids were received also for (a) paving with wood block pavement on a concrete foundation the roadway of Academy St.; (b) regulating, etc., and paving with asphalt blocks on a concrete foundation, Emma St.; (c) regulating and grading College Point Causeway; (d) regulating, grading, recurbing, reflagging and paving with asphalt blocks on a concrete foundation, Coope St.: Barber Asphalt Paving Co., (a) $12,030. (b) $7,136, (d) $5,948: U. S. Wood Preserving Co., (a) $12,150; Uvalde Asphalt Paving Co., (a) $11,424: Hastings Pavement Co., (b) $7,180, (d) $5,997: Peace Bros., (c) $38,446; Phoenix Construction Co., (c) $24,205.

NEW YORK, N. Y.—The following bids were received by George Cromwell, Pres. Boro. of Richmond on Sept. 14, for furnishing and delivering 5,000 tons of 1½-in. and ¾-in. broken stone and screenings of trap rock, or Staten Island syenite, at such points and in such quantities from time to time as the Superintenent of Highways may direct upon the roads within the portion of the Borough of Richmond known as Stone District No. 1, and bounded as follows: North by the Kill Von Kull; west by the Arthur Kill or Staten Island Sound to Richmond Turnpike; thence to Union Ave., to Old Stone Road; north along Old Stone Road to Rockland Ave. to Manor Road, to Richmond Turnpike, and thence along Richmond Turnpike easterly to Clove Road, to Bard Ave., to the Kill Von Kull. All bounding roads named in the above description are included in this district, and for furnishing and delivering 6,500 gallons of macadam road binder, with asphalt as base, in tank car at Clifton, Staten Island Siding: Jacob E. Conklin, 135 Front St., New York, $1.43; Manhattan Trap Rock Co., $1.57; Joseph Johnson's Sons, $1.63; Clinton Point Stone Co., $1.45.

The following bids were received on Sept. 15 by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt pavement on a concrete foundation the roadway of Dean St., from Rochester to Howard Aves.: Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., Brooklyn, $15,660; Uvalde Asphalt & Paving Co., 1 Broadway, New York, $16,032; Barber Asphalt & Paving Co. 30 Church St., New York, $16,733; Cranford Co., 52 Ninth St., Brooklyn, $15,664. Linden St., from Bushwick to Hamburg Aves.: Cranford Co., 52 Ninth Ave., Brooklyn, $13,079; Barber Asphalt & Paving Co., $13,558; Uvalde Asphalt Paving Co., $13,334. Pacific St., from Rochester to Buffalo Aves.: Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., Brooklyn, $5,235; Cranford Co., 52 Ninth Ave., Brooklyn, $5,245; Uvalde Asphalt Paving Co., 1 Broadway, New York, $5,882; Barber Asphalt & Paving Co., 30 Church St., New York, $5,715.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., Oct. 5, for paving and other work on various streets in the Boro. of Manhattan.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., Oct. 6, for regulating and repaving with asphalt and granite pavement on a concrete foundation the roadways of various streets.

*LAWRENCE, N. Y.—Bids will be received by the Village Trustees until 2.30 p. m., Sept. 25, for furnishing materials and labor required for grading, curbing and paving certain streets of the village, in accordance with plans and specifications filed with N. J. Pettit, Village Clk. For details see advertisement in this issue.

ALBANY, N. Y.—Bids are asked by the State Highway Commission until 1 p. m., Oct. 1, for the reconstruction of the following state highways in Erie County: Buffalo-Hamburg road No. 2-R. length, 4.607 miles; Orchard Park road No. 27-R, Section 1, length, 1.155 miles; Orchard Park road No. 66-R, Section 2, length, .952 mile; Orchard Park road No. 67-R, Section 3, length, 3.41 miles; Orchard Park road No. 68-R, Section 4, length, 1.17 miles. S. Percy Hooker is Chn. of Comn.

RYE, N. Y.—We are officially advised that John A. Billington, of Rye, submitted the lowest bid on Sept. 15 for constructing macadam road in Purchase St., at $8,197.

SYRACUSE, N. Y.—The following bids were opened by the Board of Contract and Supply on Sept. 7, it is reported, for paving a portion of Belden Ave. with (a) Pennsylvania Clay Co. block, (b) Shawmut block, (c) asphalt, (d) Jamestown block, (e) Johnsonburg block: Nicholas Marnell, 319 N. Grape St., (a) $23,632, (b) $23,190; Warner Quinlan Asphalt Co., 438 S. [illegible] St., (a) $25,663, (c) $25,231, (a) and [illegible] Gaffney & Byrne, (d) $22,941; [illegible] J. Baker, (e) $22,828, (c) $23,691, with [illegible] and (e) $23,474; Central City Paving Co., [illegible] Kirk Bldg., (c) $25,364, (e) $25,364, with [illegible] and (e) $25,581.

*NEWARK, N. J.—Bids are asked until 3 p. m., Oct. 11, by the commissioners of Roads and Assessments of the Board of Freeholders of Essex County, at Newark, for grading and paving with [illegible] ford pavement the following roads: Mountain Ave. in the Boro. of Caldwell, extending from the Old Road to Bloomfield Ave.; Runnymeade Road in the Boro. of Caldwell and Essex Fells, extending from Bloomfield to Roseand Aves.; Old Short Hills Road in the Town of West Orange and the Townships of Livingstone, Millburn, extending from the Northfield to the Parsonage Road; Cedar St. in the Township of Livingstone, extending from Roseland Ave. to [illegible] Road, Wallace Ouhgetree is [illegible]

*FREEHOLD, N. J.—Bids are asked by the Board of Chosen Freeholders of Monmouth County, at the Court-house, Freehold, until 11 a. m., Oct. 13, for construction of a gravel road in the Townships of Ocean and Eatontown, 2.61 miles. William P. [illegible] director; E. E. Throckmorton, [illegible] Engr., Broadway, Long Beach, N. J.

GALLITZIN, PA.—All bids received on Sept. 2 for paving 8,500 sq. yds. with brick in Gallitzin Borough, have been rejected. New bids will be asked. D. W. [illegible] Boro. Engr., Altoona Trust Bldg., Altoona, Pa.

PITCAIRN, PA.—Bids will be received by the Borough Council until Sept. 22 for grading and paving Fifth St. Harron, Hopkins & Taylor are Boro. Engrs., 900 Lewis Block, Pittsburg.

WILMINGTON, DEL.—Bids as follows were opened by the Levy Court on Sept. 15 for building the New London road in White Clay Creek Hundred, from Newark to the Pennsylvania line, a distance of 7.7 miles: L. B. Jacobs, Newark, granite or trap rock bottom and surface, $24,866; limestone, $23,606; Amesite, $30,210; William C. Evans, Ambler, Pa., granite or trap rock, $26,617; limestone, $21,717; Amesite, $28,682; asphaltum binder, $26,000; tar binder, $26,000; Warenite, $35,648; Stewart & Donohue, Brandywine, granite, $22,058; Birdsboro trap, $24,704; limestone bottom, $20,333; Amesite, $28,015; Corcoran Construction Co., granite or trap, $23,982; limestone, $23,982; Amesite, $32,258; asphaltum binder, $31,196; tar binder, $31,196; Warrenite, $43,276; B. F. WICKERSHAM, Kennett Square, Pa., granite or trap, $22,750 (awarded contract); limestone, $19,900; Amesite, $26,615; Warrenite, $37,612; John A. Clark, granite or trap, $23,900; limestone, $22,800; Amesite, $31,400; asphaltum binder, $27,500; tar binder, $25,500; Warrenite, $34,000; Horrigan Construction Co., limestone bottom, $20,419; Amesite, $27,384; Warrenite, $32,350.

ROANOKE, VA.—Bids are asked until noon, Sept. 25, by W. L. Craft, City Clk., for the construction of a granolithic sidewalk on Fourth St., S. E., between Tazewell and Bullitt Aves. W. B. Bates is City Engr.

ATLANTA, GA.—Bids are asked until 3 p. m., Sept. 30, by R. M. Clayton, City Engr., for paving Marietta St. with creosoted wooden block from Peachtree St. to Spring St., approximately 10,200 sq. yds.; Marietta St., from Spring St. to Tabernacle Pl., approximately 7,000 sq. yds., and Forsyth St., from Luckie St. to Peachtree St., approximately 2,150 sq. yds.

MOBILE, ALA.—Bids will be received until Sept. 30 by Board of Public Works, J. T. Schley, Pres., for paving 29,267 sq. yds. Wright Smith is Ch. Engr.

ENSLEY, ALA.—Bids are asked until 3 p. m., Sept. 28, by the city for artificial stone sidewalks and curbing, grading and guttering about five miles of streets. V. E. Ohl is City Engr.

BRISTOL, TENN.—Bids will be received until Oct. 9 by the County Road Commissioners, Bristol, John H. Caldwell, Chn., for grading and macadamizing about 60 miles of road in Sullivan County. F. G. Phillips is Engr.

MORRISTOWN, TENN.—We are officially advised that contract for grading and macadamizing 65 miles of roads has been awarded by J. N. Fisher, Chn. Rd. Hamblin County Pike Comn., to FREEMAN & ROBBINS, of Knoxville.

*ASHLAND, KY.—Bids will be received by E. A. Shepard, City Clk., until 7 p. m., Sept. 28, for furnishing all materials for the construction of vitrified brick pavement with concrete curb and gutter and header for same. The approximate quantities are: 44,800 sq. yds. paving, 24,400 lin. ft. combined curb and gutter, and necessary catch basins for same, 4,000 lin. ft. for concrete header.

TOLEDO, OHIO.—Bids will be received by the Board of Public Service, Reynold Volt, Secy., until Sept. 24, for paving Emerald Ave. with either sheet asphalt vitrified blocks, or creosoted wood blocks and repaving Broadway with either sheet asphalt, creosoted wood blocks, asphalt blocks, bitulithic pavement or other asphaltic concrete.

MT. HEALTHY, OHIO.—Bids will be received until Sept. 28 by the Village Council, Frank Williamson, Clk., for improving St. Clair Ave. by grading, macadamizing, etc.

YOUNGSTOWN, OHIO.—Bids will be received until Sept. 24 by the Board of County Commissioners, Youngstown, for grading and macadamizing 1¾ miles road in Canfield Township, under the provision of the State Highway Law. Estimated cost, $18,448. James C. Wonders is State Highway Comr.

CLEVELAND, OHIO.—Bids will be received until Oct. 2 by the Board of County Commissioners, William F. Black Clk., for grading, draining and improving the St. Clair road in Collinwood and Euclid Townships and Nottingham Village.

CANTON, OHIO.—Bids will be received until Sept. 24 by the Board of Public Service for improving East Fourth St. and Warner Ave.

FAYETTE, OHIO.—Contract for furnishing material and constructing about 6,400 sq. yds. of vitrified or other block pavement, bids opened on Sept. 10, has been awarded by the village to M. F. O'SULLIVAN, 145 Oak St., Toledo, at $13,000.

JEFFERSON, OHIO.—Bids are asked until Sept. 30, by P. C. Remick, County Audr., for grading, curbing and macadamizing Walnut St., from Ohio Ave. to Union St., Saybrook Township, a distance of about 1,265 ft.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County until 1 p. m., Oct. 5, for the construction of 5,146 ft. of rock roads in Center Township, 15,840 ft. of road in Grant Township, 31,680 ft. of rock road in Oak Grove and Grant Township, 15,840 ft. of rock road in Grant Township, 15,840 ft. of rock road in Oak Grove Township, including bridging and culverts. Lemuel Shipman is County Audr.

CRAWFORDSVILLE, IND.—Bids are asked by B. B. Engle, Audr., Montgomery County, until 10 a. m., Oct. 5, for the construction of a gravel road in Wayne Township, known as the Hackery road.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Park County until 1.30 p. m., Oct. 5, for the construction of a gravel road in in Penn Township. H. A. Henderson is County Audr.

VINCENNES, IND.—Bids are asked by the Commissioners of Knox County until 2 p. m., Oct. 5, for the construction of 8,634 ft. of gravel road in Busseron Township. John T. Scott is County Audr.

CRAWFORDSVILLE, IND.—Bids will be received by the Commissioners of Montgomery County until 10 a. m., Oct. 5, for the construction of a gravel road in Wayne and Ripley Townships. B. B. Engle is County Audr.

GREENCASTLE, IND.—Bids are asked by the Commissioners of Putnam County until 11 a. m., Oct. 4, for the construction of a macadamized road, 3,610 ft. in length, in Greencastle Township, and for the construction of a macadamized road, 5,020.8 ft. long, in Mill Creek Township. D. V. Moffitt is County Audr.

DANVILLE, IND.—Bids will be received until 10 a. m., Oct. 4, by Commissioners of Hendricks County for the construction of 8,173 ft. of gravel roads in Union and Middle Townships and for the construction of three gravel roads in Center Township, road No. 8, 519.9 ft. in length, No. 2, 4,497.6 ft. in length and No. 3, 6,656.6 ft. in length. William Nichols is County Audr.

GRAND RIDGE, ILL.—Bids will be received until Sept. 25 by the Commissioners of Highways, Town of Farm Ridge, at Grand Ridge, D. J. O'Mara, Chn., for constructing a gravel road.

MILWAUKEE, WIS.—The Board of Public Works has awarded brick paving contracts as follows: Lapham St., from 22d to 27th Ave., W. T. McGOVERN, $2.47 per sq. yd.; Prairie St., from Third to Fifth Sts., BACHELLOR & POWELL, $1.92; Port Washington road, from Keefe Ave. to Green Bay Ave., same, $2.21; Central Ave., from Seventh to Eleventh Sts., BADGER CONSTRUCTION CO., $1.87; Fourth St., from Vliet to Poplar Sts., same, $1.92.

Contracts for Kettle River sandstone paving were awarded as follows: North Ave., from Humboldt Ave. to Milwaukee River, and Becher St., from Greenbush St. to Kinnickinnic River, HAASE & WEIHER, Milwaukee, $3.11 and $3.23 per sq. yd., respectively; Fourth St., from Clybourn to Fowler Sts., BADGER CONSTRUCTION CO., $3.20.

Contracts for asphalt paving were awarded as follows: Martin St., from East Water to Market Sts., Oakland Ave., from Newberry Boulevard and Milwaukee St., from Oneida to Biddle Sts., WHITE CONSTRUCTION CO., Milwaukee, at $2.28, $2.45 and $2.28, respectively. Charles C. Poetsch is City Engr.

RACINE, WIS.—Bids are asked until 10 a. m., Sept. 25, by the Board of Public Works, for paving with brick, Fifth St., from Monument Sq. to College Ave., approximately 1,707 sq. yds. P. H. Connolly is Chn. Bd.

PRESCOTT, WIS.—Bids are asked until noon, Oct. 1, by R. H. Price, City Clk., for grading Dakota St., from Walnut to Kinnickinnic Sts.

MOUNT VERNON, WASH.—Bids were opened by the County Auditor on Sept. 7 for constructing the W. V. Wells road around Marches Point, a distance of 12,900 ft. Contract has been awarded to W. S. STEVENS. J. M. Shields is County Audr.

WENATCHEE, WASH.—Bids will be received until Sept. 28 by S. R. Sumner, City Clk., for a power-driven road roller, f. o. b. Wenatchee.

OLYMPIA, WASH.—Bids will be received until Sept. 27 by the State Highway Board, Olympia, Henry L. Bowley, Secy., for the following: Grading and draining and macadamizing State Aid road No. 54, Walla Walla County; grading and draining State Aid road No. 47 and grading, draining and macadamizing State Aid road No. 48, both in Whitman County; grading, draining and gravelling State Aid road No. 49 and grading, draining and macadamizing State Aid road No. 50, both in Spokane County.

LONG BEACH, CAL.—Bids are asked until 9 a. m., Oct. 1, by the Board of Public Service for various items of street work. C. O. Boynton is Secy. Bd.

STOCKTON, CAL.—We are officially advised that about the end of this month the first contract of the 238 miles of bonded county roads will be let. This particular contract will be for 20 miles of asphalt macadam with concrete culverts and bridges for the same. Other contracts for the rest of the work will follow shortly. Asphalt macadam pavement provided in this contract allows the use of gravel or crushed stone in the mixture, and the foundation underneath will be of gravel. F. A. Eckstrom is Secy. Highway Comn., San Joaquin County.

OGDEN, UTAH.—Bids are asked until 8 p. m., Sept. 27, by the City Council for the construction of sidewalks in sidewalk district No. 105. A. F. Parker is City Engr.

TWIN FALLS, IDAHO.—Bids are asked until 8 p. m., Oct. 4, by Stuart H. Taylor, City Clk., for grading, curbing and paving streets in local improvement district No. 5.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

WORCESTER, MASS.—It is stated that M. J. Whittal will erect a factory building in Worcester at a cost of $100,000.

HOLYOKE, MASS.—The Holyoke Water Power Co., Holyoke, Mass., will erect a new building which will be rented for manufacturing purposes. Plans are in progress. Reuben C. Winchester, Holyoke, is Mgr.

WORCESTER, MASS.—The Worcester Cold Storage & Warehouse Co., Worcester, Mass., which manufactures artificial ice in connection with its business, will build a 1-story addition, 100 × 100 ft.

NEW BRITAIN, CONN.—The Corbin Screw Co., New Britain, Conn., is preparing to erect an additional factory building. It will be of brick, 50 × 380 ft. Alternate bids for four and six stories will be received.

TORRINGTON, CONN.—The Standard Co., Torrington, Conn., manufacturers of spokes, nipples, needles, spark plugs, etc., will erect an addition to its works for manufacturing purposes.

SEYMOUR, CONN.—The H. A. Matthews Co. has let a contract to the SEYMOUR CONCRETE CO. to erect a mill. The new building will be 60 × 102 ft., two stories, with concrete floors, iron beams, walls of concrete blocks. Concrete shingles will be used on the roof, making the building fireproof.

WATERTOWN, N. Y.—The management of Shaughnessy Knitting Mills, Amsterdam, has made arrangements to move the plant and business to Watertown. The concern will occupy one floor, 6,500 sq. ft., in the James D. Wise building in this city, and will construct a new plant as soon as possible on land donated to the company by the Watertown Light & Power Co. The new mill will be 50 × 150 ft.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Pub. Charities, until 2 p. m., Sept. 29, for furnishing all the labor and materials required for the erection of an addition to the laundry at the New York City Home for the Aged and Infirm, Blackwell's Island, the city of New York.

FORT PLAIN, N. Y.—The A. A. Walrath Co., of Fort Plains, N. Y., has awarded to the WILLIAM J. BURNS CONSTRUCTION CO., of Syracuse, the general contract to rebuild a 2-story brick factory, 80 × 150 ft., at Fort Plain. A. A. Walrath is Pres.

OSWEGO, N. Y.—The Kingsford Foundry & Machine Works Co., has plans in progress for a 1-story foundry, 75 × 125 ft., of brick and steel. The owners will receive bids.

ILION, N. Y.—We are officially advised that the Remington Typewriter Co., 325 Broadway, New York, intends to enlarge the capacity of its factory at Ilion, N. Y., and orders are to be placed for an additional power unit and for machine tool equipment amounting to about $50,000. John F. McClain is Gen. Mgr.

NEWARK, N. J.—Complete machinery for the manufacture of fiber trunks will be installed by William Bal, Inc., 285 New Jersey Railroad Ave., Newark, who has plans in preparation for a plant to be erected at 8-14 Johnson St., Newark.

BURLINGTON, N. J.—Silk factories are planned for Burlington by Martin L. Cohn, Pres. and Treas. of the Burlington Silk Mill, to cost $50,000. These will be the beginning of a large plant to be erected by the company whereby goods formerly imported from China and Japan will be manufactured here. An experimental plant on a small scale was started by this concern in Burlington a few years ago.

PATERSON, N. J.—The Cataract Motor Co. has been incorporated at Paterson by W. H. Sherman, George E. Hannah and others, with a capital of $350,000, to erect a factory for the manufacture of automobile engines.

PHILADELPHIA, PA.—G. W. Blabon Co., oilcloth manufacturers, will erect a factory, 72 × 200 ft., in addition to the present plant at Blabon St. Cost, $60,000.

The CHARLES McCAUL CO., Tenth and Sansom Sts., has a contract to erect a factory at Front and Laurel Sts. for the Estate of Mary Disston. The cost will be $22,000.

The American Cork & Seal Co., of which John Megraw, the operative builder, is Pres., has been granted a permit to build a 1-story brick factory, 70 × 335 ft., at the southwest corner of Sepviva and Butler Sts. It will cost $25,000. Noted on Aug. 26.

WILSON, N. C.—J. Cobb, Pres. of the Tarboro Knitting Mill, George Howard and Henry Brown, also connected with the same company, will erect a hosiery mill at Wilson, N. C., providing the citizens of that city contribute $12,500 toward the proposed plant. The promoters of the enterprise agree to contribute $31,500.

ALBEMARLE, N. C.—The Efird Mfg. Co. is preparing to begin the erection of its additional 15,000-spindle plant. It will erect a 50 × 300-ft. mill structure to house the new machinery. This will increase its equipment to 32,000 spindles for yarn manufacture. About $250,000 will be expended. John W. Cannon, of Concord, N. C., is Pres. of the company.

BIRMINGHAM, ALA.—The Southern Produce & Cold Storage Co. is having plans prepared by E. T. Skinkle, Chicago, Ill., for a cold-storage warehouse, 125 × 75 ft., four stories high, with twelve rooms on each floor. The company will erect an ice factory, 125 × 50 ft., equipped with a 60-ton ice-making machine.

BREAUX BRIDGE, LA.—The Evangeline Sugar Mfg. Co. has been incorporated with $100,000 capital stock. L. Ransonet is Pres.; J. W. Regnaud, Vice-Pres.; A. E. Broussard, Treas.; J. T. Lejeune, Mgr. The company will erect $75,000 steel building, 100 × 250 ft., of mill construction and will install a 1,500-ton mill to manufacture sugar from cane. It will commence building and open machinery proposals in December.

BATON ROUGE, LA.—The Standard Box Co., W. M. White, Pres., will establish an addition to plant, two stories, 140 × 76 ft., metal roof, of ordinary mill construction. Cost of buildings, $12,500; cost of planing mill and box machinery, $36,000; capacity, two cars of boxes and crates daily. J. L. Walker, Baton Rouge, is Engr.-in-Charge.

PADUCAH, KY.—John H. Hodge & Co., of Henderson, Ky., will erect a brick tobacco factory, 250 × 100 ft. Cost of building and machinery, $50,000.

LEXINGTON, KY.—W. L. Petty & Co. have awarded contract to the COMBS LUMBER CO., Lexington, for erection of a redrying plant to be two stories, brick, 90 × 200 ft. Capacity, 200,000 pounds daily. Cost, $30,000.

LOUISVILLE, KY.—Brinton B. Davis, Arch., Masonic Bldg., is preparing plans and will soon receive bids for erecting a cordage mill on Reutlinger and Dandridge Aves. for the Bradford Worsted Mill Co. Cost, $90,000.

TOLEDO, OHIO.—The H. J. SPIEKER CO., 409 Michigan St., has been awarded the contract for the erection of the addition to the Overland plant on Central Ave. This addition, which is to be used as a finishing department and store room, will be "L" shaped. It will be 397 ft. long, 91 ft. wide and three stories in height. The foot or bottom of the "L" is to be 61 × 91 ft. Work is to be begun on the building at once. J. N. Willys is Pres.

The Sanitary Construction & Mfg. Co., of Terre Haute, Ind., has secured an option of five acres of land two blocks south of the Libbey Glass Co.'s plant on Ash St., and will be ready to build a factory in Toledo as soon as the city condemns a right-of-way over the Wheeling tracks at Stickney Ave. Edward S. White is Pres.

CLEVELAND, OHIO.—The Upson Nut Co. is working on plans for building four open-hearth furnaces in Cleveland, it is stated. Where the new plant will be located is not known, but probably it will be near the company's factory in the flats. The cost of the proposed plant will be from $1,000,000 to $2,000,000. A. S. Upson is Pres.

LIMA, OHIO.—The Ohio Steel Castings Co. will erect a 200-ft. addition to its plant.

CINCINNATI, OHIO.—The Bullock Electric Co., Forest Ave., Norwood, will erect two buildings, each 100 × 300 ft., to cost $100,000.

ZANESVILLE, OHIO.—The Orr Machine & Foundry Co., Zanesville, was incorporated with a capital stock of $10,000 in Columbus on Aug. 31. The incorporators are: Harry T. Orr, Simon Linser, Sr., Clyde Reasoner and Charles Dieterly, of Zanesville, and George Dieterly, of Chillicothe. It is understood that the new company expects to build a new foundry on the site of the old rolling mill on Malinda St. and the present Orr foundry in Putnam will be incorporated in the new industry.

LOCKLAND, OHIO.—G. W. Drach, Arch., has plans for the new plant of the Fox Paper Co. at Lockland, which improvement will cost, it is estimated, about $100,000.

JOLIET, ILL.—R. G. Hoen, Arch., 205 North Chicago St., Joliet, is taking bids on a 1-story brick printing plant, 25x92 ft., to be erected for the Slovenic American Printing Co., 901 Scott St., at a cost of $5,000.

SUPERIOR, WIS.—The U. S. Gypsum Co. will rebuild its plant, which will be 160 × 64 ft., and built of corrugated iron or concrete blocks.

WATERLOO, IOWA.—The Mason Automobile Co., of Des Moines, will erect factory buildings here, it is reported.

HASTINGS, NEB.—The Hastings Foundry & Iron Works will erect a structural steel foundry building, 80 × 100 ft. There will be a storeroom and office, 40 × 100 ft., and pattern shop, 40 × 100 ft.

KANSAS CITY, MO.—Maurice Berkowitz, Secy.-Treas. Berkowitz Envelope Co., will erect a factory building, five stories high; cost, including ground, $100,000.

ST. JOSEPH, MO.—Champion Feed Co. will erect a $60,000 factory building at Fifth and Monterey Sts. The Selden-Breck Construction Co. are Archs, Fullerton Bldg., St. Louis, Mo.

The Western Tablet Co. will erect a factory building, 300 × 150 ft., on Mitchell Ave. and Eleventh St. for the manufacture of stationery. William Albrecht is Mgr.

MERRIMAC, TEX.—The Merrimac Mfg. & Trading Co., of Dallas, Tex., B. N. Garrett, Pres., will erect a fireproof mill here for the production of artificial silk and hair for textile purposes. The company has a capital stock of $100,000.

OKLAHOMA CITY, OKLA.—It is stated that the Oklahoma Grain Exchange and Board of Trade will erect an elevator of 1,000,000 bushels capacity.

ENID, OKLA.—The Farmers' Co-operative Packing Plant Co., in care of J. Y. Callahan, recently reported incorporated with capital stock of $1,000,000, will erect buildings, 300 × 400 ft., and install machinery for a daily capacity of 1,000 hogs and 500 cattle. The equipment has not been purchased.

SAPULPA, OKLA.—The Sapulpa Steel Works will be organized with a capital stock of $500,000 by S. R. Wells, of Indianapolis, Ind., and others, to build a plant here for manufacturing merchant bar iron from scrap iron.

DENVER, COLO.—Plans have been made by the McMuty Mfg. Co. to enlarge its plant at 29th and Blake Sts., at a cost of $100,000. A third story will be added to the present main building and a varnish plant will be constructed. In addition a 3-story warehouse, 185 × 60 ft., will be erected.

SEATTLE, WASH.—Broderick & Bascom, rope manufacturers of South Seattle, are planning to construct a factory building, 200 × 70 ft., of reinforced concrete.

PORTLAND, ORE.—The Pacific Metal Works has let a contract to GARDNER & McLENNAN, 778 Hoyt St., to erect a 2-story brick foundry building on Everett St., at the corner of Park St. Cost, $20,000.

VICTORIA, B. C.—The British Columbia Pottery Co., Ltd., will expend about $30,000 in enlarging its plant in Victoria West and installing machinery.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., wil be found under Water Supply—Irrigation.

STEEL SHED.—New York, N. Y.—See item under Buildings.

FIRE HOSE.—New York.—Bids are asked by Nicholas J. Hays, Fire Comr., until 10.30 a. m., Sept. 29, for furnishing and delivering 30,000 ft. of 2½-in. cotton fabric rubber-lined hose.

STREET SIGNS.—New York, N. Y.—Bids are asked by John F. Ahearn, Pres., Boro. Manhattan, until 2 p. m., Oct. 5, for furnishing and delivering 4,500 blue enamel street signs.

WHEELS, SPOKES, ETC.—New York.—Bids are asked by William T. Edwards, Comr. St. Cleaning until noon, Oct. 6, for furnishing and delivering wheels, spokes, felloes, shafts and poles.

DRIP PANS.—New York, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., Sept. 29, for the construction of drip pans under the Manhattan approach of the Williamsburgh Bridge.

*STEEL PONTONS.—St. Louis, Mo.—Bids are asked until noon, Oct. 12, by Lt. C. H. Knight, Corps Engrs., U. S. A., and Secy. Mississippi River Comn., Liggett Bldg., St. Louis, for furnishing steel pontons.

STEAMER.—New York.—Bids are asked by John T. Barry, Comr. of Correction, until 11 a. m., Oct. 7, for furnishing all the labor and materials required for construction and completion of a single screw steamer.

DOCK.—Escanaba, Mich.—The Chicago & Northwestern Ry. Co., announces that it will replace Dock No. 5, partly destroyed by collapse, with a steel dock, with 400 pockets, to cost approximately $1,000,000. E. C. Carter, Chicago, is Ch. Engr.

FENCE.—New York, N. Y.—Bids are asked until 2 p. m., Sept. 27, by John F. Ahearn, Pres. Boro. of Manhattan, for fencing proposed playground on Park Ave., from the north side of 120th St. to the south side of 124th St.

FIRE ALARM CABLE.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., Oct. 14, for furnishing and delivering 21,000 ft. of underground lead-covered cable for fire alarm telegraph.

*STONE.—Savannah, Ga.—Bids are asked by Col. Dan C. Kingman, Corps Engrs., U. S. A., Savannah, until noon, Oct. 20, for furnishing and placing stone for raising low places in jetties at entrance to Cumberland Sound, Ga., and Fla.

*CEMENT.—Vicksburg, Miss.—Bids are asked until noon, Oct. 5, by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Vicksburg, for furnishing 14,000 bbls. of Portland cement for use in construction of Locks and Dams Nos. 4 and 8, Ouachita River, La. and Ark.

WHARF.—San Pedro, Cal.—The Pacific Wharf & Storage Co., R. N. Bulla, of Los Angeles, Pres., will construct a wharf at San Pedro Harbor, soon, to be equipped with electric cranes and modern machinery and a warehouse. The company has available funds to the amount of $115,000.

*RIPRAP GROINS.—Mobile, Ala.—Bids are asked by Maj. H. Jervey, Corps Engrs., U. S. A., Mobile, until 11 a. m., Oct. 18, for construction of riprap groins for sea walls at Fort Morgan and Fort Gaines, Ala. Specifications are on file at the office of Engineering News, New York.

PAINTING FIREBOATS.—New York, N. Y.—Bids are asked until 10.30 a. m., Oct. 4, by Nicholas J. Hayes, Fire Comr., for furnishing all the labor and materials required for painting the hulls of the fireboats "William L. Strong," "C. W. Lawrence," and "Zophar Mills." Boros. of Manhattan and Richmond.

RIVER WORK.—New Orleans, La.—Bids were received on Sept. 9 by Lt. R. R. Ralston, Corps Engrs., U. S. A., New Orleans, for removing a mattress sill laid on the bed of the river across the head of Southwest Pass, Mississippi River. The only bid received was that of the Bowers Southern Dredging Co., of Galveston, Tex., at $40,000.

DREDGING, ETC.—St. Louis, Mo.—The following bids were received on Sept. 4, by Lieut. C. H. Knight, Corps Engrs., U. S. A., for dredging and removal of cemented

gravel and small boulders in the Mississippi River at Grand Tower, Ill., approximately 50,000 cu. yds.: The Ohio River Contract Co., 27½ cts. cu. yd., $1.35 tonage mile; Monongahela & Western Dredging Co., $1.25 cu. yd., $3.50 tonnage mile.

BREAKWATER.—Newport, R. I.—Bids were received as follows on Sept. 15, by Lieut.-Col. J. C. Sanford, Corps Engrs., U. S. A., for repairing breakwater of Harbor of Refuge at Point Judith, R. I., (bids given for stone lighter per ton day): The T. A. Scott Co., Inc., New London, Conn., $65; The Breakwater Co., 1222 Arcade Bldg., Philadelphia, Pa., $200; E. S. Belden & Sons, Hartford, Conn., $75.

BOILER.—New York, N. Y.—The following bids were received by Allen N. Spooner, Comr. of Docks and Ferries, on Sept. 16, for preparing for and furnishing and installing a new boiler in the tug "Brooklyn" complete with all appurtenances: Heipershausen Bros., 43 Tompkins St., $8,990; Waters Gildersleeve Colver Co., 45 Broadway, $9,575; John W. Sullivan, 827 East Ninth St., $9,379; Jas. Shewan & Sons, foot of Houston St. and East River, $9,628; Griscom-Spencer Co., 90 West St., $10,720.

DITCH.—Wheaton, Minn.—Bids were received as follows by J. T. Erickson, County Audr., on Sept. 11, for constructing Judicial Ditch No. 3, 132,831 yds. of dredging. Estimated cost, $13,283; Brown & McGraw, Litchfield, Minn., 6.98 cts. per cu. yd.; W. M. Sherwood, Alexandria, Minn., 8.5 cts.; A. L. Sisson, Litchfield, Minn., 8.9 cts.; John Kohler, Frazee, Minn., 8.78 cts.; St. James Tile Mfg. Co., St. James, Minn., 9.89 cts.; Berdin & Rutt, Fairmont, Minn., 7.25 cts.; Miller Dredging Co., Winaund, Minn., 9.6 cts.

MATTRESSES, ETC.—New Orleans, La.—Bids were received by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., on Sept. 13, for constructing and sinking mattresses with stone at Southwest Pass, Mississippi River, and for extension of the east jetty, as follows (a) brush mattresses in place, 70,778 sq. yds.; (b) riprap stone in place, 26,542 tons; (c) total: Christie & Lowe, New Orleans, La., (a) $92,011, (b) $106,168, (c) $198,179; Richard M. Murphy, New Orleans, La., (a) $106,167 (b) $119,439 (c) $225,606.

*DREDGING.—Raritan, N. J.—Bids were received by D. W. Lockwood, Corps Engrs., U. S. A., 39 Whitehall St., New York, N. Y., on Sept. 14 for dredging in Raritan Bay, N. J., as follows: R. G. Packard Co., 130 Pearl St., New York, 16.5 cts.; Taylor Dredging Co., 21 State St., New York, 17.8 cts.; Maritime Dredging Co., 78 Broad St., New York, 24.5 cts.; U. S. Dredging & Contracting Co., 260 Washington St., Jersey City, N. J., 35 cts.; International Contracting Co., 17 Battery Pl., New York, 29 cts.; W. H. Beard Dredging Co., 21 State St., New York, 25 cts.

PILE DRIVER.—Burrwood, La.—Bids were received as follows on Sept. 9, by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for furnishing and delivering combined pile driver and derrick plant at Burrwood, Southwest Pass, Mississippi River, La.: Peter Eskald, Biloxi, Miss., $9,192; Wilmot Machinery Co., New Orleans, La., $9,297; The Johnson Iron Works, Ltd., New Orleans, La., $9,939; G. & W. Mfg. Co., Inc., New York, N. Y., $15,887; Stern Foundry & Machinery Co., New Orleans, La., $12,300; E. J. Howard, Jeffersonville, Ind., $11,156; The Jahncke Navigation Co., New Orleans, La., $11,400.

SEAWALL.—Ft. McRee, Fla.—Bids were received as follows by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, Ala., on Sept. 10 for constructing a seawall at Ft. McRee: Thiele Construction Co., Johnstown, Pa., $95,208; Peter Eskald, Biloxi, Miss., $85,247; Robert C. Storrie & Co., Pensacola, Fla., $73,408; Brewer & Jones, Birmingham, Ala., $86,586; H. B. Thompson & Co., Birmingham, Ala., $76,768; S. A. Bailey, New York, N. Y., $122,960; Henry and John Monk, Pensacola, Fla., $72,458; Bryan & Co., Jacksonville, Fla., $93,980; Christie & Lowe, New Orleans, La., $104,484.

ORDNANCE.—Washington, D. C.—Bids were received on Sept. 22, at the Bureau of Ordnance, Navy Dept., for $1,099,856 worth of new ordnance. With the exception of six spare guns for some of the older vessels, these guns, ten 12-in. twelve 6-in. and twenty 5-in., are for the new 26,000 ton battle ships, the Wyoming and the Arkansas, the contracts for the construction of which were recently awarded. There were two bidders. The Bethlehem Steel Co., of South Bethlehem, Pa., was the lower bidder for the ten 12-in. guns, at $72,820 each, and twelve 6-in. guns, at $15,638 each. The Midvale Steel Co., of Philadelphia, was the lower bidder for twenty 5-in. guns, at $9,200 each. The 12-in. and 5-in. guns are to be delivered in finished conditions. The first of the 12-in. guns will be delivered in 13½ months, and one gun every two months thereafter; the first of the 6-in. guns in ten months, and one each in 25 days thereafter, and the first of the 5-in. guns in nine months, and one each 20 days thereafter.

*DREDGING.—Ft. Terry, N. Y.—Bids were received as follows by Capt. Charles T. Baker, Q. M., U. S. A., at New London, Conn., on Sept. 18, for dredging approximately 127,000 cu. yds.; also for wharf construction at Ft. Terry, N. Y.—(a) Dredging harbor and channel, furnishing and placing riprap in jetties and revetments, furnishing and placing of protective material on slopes of harbor, except that portion in front of retaining wall, and grading of marginal area around harbor; (b) construction of wharf, retaining wall including foundation and sheet piling, furnishing and driving pile dolphins, grading in front and rear of retaining wall and the covering of slope in front of wall with protective material; (c) work complete: Thames Tow Boat Co., New London, Conn., (b) $12,665; J. S. Packard Dredging Co., Providence, R. I., (a) $46,750; T. A. Scott Co., Inc., New London, Conn., (b) $12,490; Mitchell & Co., 2 Stone St., New York, (a) $45,200, (b) $9,800, (c) $55,000; E. S. Belden & Son, Hartford, Conn., riprap in jetties, $1.75 per cu. yd. in slopes $2 per cu. yd.; International Contracting Co., 17 Battery Pl., New York, (a) $47,350; Curley Bros., 16 Strong Pl., (a) $45,344, (b) $11,772, (c) $57,116.

U. S. POSSESSIONS.

TUG BOAT.—Panama.—Bids were received as follows on Sept. 20 by the Isthmian Canal Commission, Washington, D. C., for one steel tug boat to be delivered at Ancon (Pacific Port): William Cramp & Sons Ship & Engine Bldg. Co., Philadelphia, Pa., $90,800; deliverd at Philadelphia, 175 days. John H. Dialogue & Son, Camden, N. J., $68,500; $36,000; delivered at Camden, N. J. Samuel Holmes, 66 Broad St., New York, $52,500; delivered at home port, 60 days. William J. Lathan, 1 Broadway, New York, $80,000; delivered New York. J. H. Laub, 28 South St., New York, $72,500; delivered at New Yor. Port Johnson Towing Co., 1 Broadway, New York, $76,000; delivered at New York, 240 days. Pusey & Jones Co., Wilmington, Del., $83,780; delivered at Ancon, 300 days.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

DREDGE PUMPS.—Winnipeg, Man.—A Serkau, 92 Selkirk Ave., writes us for names of manufacturers of pumps for dredging work.

ROAD MACHINERY.—Point Loma, Cal.—Durand Churchill writes us to secure catalogs of road-making machinery of every sort.

ROAD MACHINERY.—Denver, Colo.—L. M. MacArthur, 801 Cooper Bldg., writes us that he desires literature on road construction and machinery as he expects to do road work in Texas to the extent of $100,000.

CATALOGS.—Troy, N. Y.—We are in receipt of a letter from the Rensalaer Technical Society, made up of alumni and undergraduates of Renssalaer Polytechnic Institute, stating that the society is installing a catalog file and would like catalogs of engineering interest.

EXAMINATIONS.

MECHANICAL DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 20-21, to secure eligibles from which to make certification to fill a vacancy in the position of Draftsman, $1,000 a year, in the Patent Office, Washington, D. C., and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer or promotion. Age limit, 18 years. Application form 1312.

HIGHWAY ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 20-21, to secure eligibles from which to make certification to fill vacancies as they may occur in the positions of Highwyy Engineer and Senior Highway Engineer in the Office of Public Roads, Dept. of Agriculture, at salaries ranging from $1,200 to $2,250 a year.

Applicants must indicate in their applications that they have had a good scientific education ad some practical experience in road construction. The duties of these positions are such that men, however well grounded in theory and office work, can not perform them satisfactorily unless they have had practical experience as builders, contractors, or supervisors of the class of work done under the direction of the Office of Public Roads. Applicants who fail to show in their applications that they have had sufficient training and experience to entitle them to a rating of at least 70 per cent. in this subject will not be admitted to the examination. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on Oct. 9.

TESTING ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 20 to secure eligibles from which to make certification to fill two vacancies in the position of Engineer in Timber Tests, $1,200 a year each, Boulder, Colo.; one vacancy in that position, $900 a year, Seattle, Wash.; one vacancy at $1,200 a year at Berkeley, Cal., and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion.

The thesis must be submitted with the application and must be accompanied by a sworn statement in the following language: "I, the undersigned, do solemnly swear (or affirm) that in the preparation of the accompanying thesis the composition is entirely my own, and that I have given full credit by quotation marks or references to authorities for any quoted matter." The oath must be taken before a notary public or other officer authorized to administer oaths for general purposes, and the officer's signature must be authenticated by official seal. If the oath be taken before a justice of the peace, or other officer who has no official seal, his official character must be certified to by the clerk of the court, secretary of state, or other proper officer, under official seal. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on Oct. 9.

INDUSTRIAL NOTES.

THE J. H. FLICK CONSTRUCTION CO., railway and general contractors, has established its headquarters in Chicago, with offices in the Old Colony Bldg.

THE FIRM of Buell & Mitchell, 120 Liberty St., New York, was dissolved on Sept. 15. The firm of Mitchell & Tappen has been formed at the same address to do business as contractors in steel and iron.

THE EMPIRE CONSTRUCTION CO., of Cihcago, carrying on a general contracting business, announces that it has opened permanent offices at 1210 Fullerton Bldg., St. Louis. Mr. M. W. Cluxton is General Manager.

THE ENTIRE FACTORY of H. V. St. George, Inc., 383-5 West Broadway, New York, was recently destroyed by fire. The firm is now located at 10-14 Grand St., New York, and will shortly be in a position to fill all orders.

THE PARKER BOILER CO., Pennsylvania Bldg., Philadelphia, reports the receipt of the following orders. Eberhard Faber, Brooklyn, N. Y., two 289-HP. boilers; Colorado Fuel & Iron Co., Segundo, Colo., one 265-HP. boiler.

THE CANTON BOILER & ENGINEERING CO., Canton, Ohio, has secured the order for the 25-ft. diameter by 83-ft. high standpipe for East Gardner, Mass. The company reports that its shops are now running night and day on steel plate work, tanks, etc.

THE SENECA CHAIN CO., Kent, Ohio, announces the appointment as Secretary and General Manager of the company, Mr. W. A. Hengstenberg, for many years connected with the Newhall Forge & Iron Co., of New York, and until recently Vice-President of that company.

THE G. & W. MFG. CO., 26 Cortlandt St., New York, has recently opened a branch office in Washington in the Mutual Fire Insurance Bldg., with C. Francis Owens and O. E. Hilmer in charge. This office will have charge of all local government work in Washington and vicinity.

THE GARWOOD ELECTRIC CO., Garwood, N. J., announces that it has appointed the following agents: Charlotte Contract Co., Charlotte, N. C., for North and South Carolina; the Atlanta Brokerage Co., Atlanta, for Georgia; Montilino Price Co., Seattle, for Washington and Oregon.

SANFORD E. THOMPSON, M. Am. Soc. C. E., announces that he has enlarged his offices and laboratory at Newton Highlands, Mass., and is prepared to render services, with the aid of competent assistants, in matters pertaining to plain and reinforced concrete, and to costs in all classes of construction.

SMITH, KERRY & CHACE, Engineers, of Toronto, Ont., have opened a branch office at 71 Fairfield Bldg., Vancouver, B. C., for carrying on British Columbia and Pacific Coast work. Mr. H. J. Haffner is in charge. It is proposed to do general business from this office, including in particular, waterpower electrical development.

THE CENTRAL CONSTRUCTION & SUPPLY CO., 140 North Tenth St., Philadelphia, successors to Kolischer Engineering Bureau, and J. M. Gillespie (York Manufacturing Co.), have been appointed representatives of the York Manufacturing Co., York, Pa., manufacturers of ice-making and refrigerating machinery, in Philadelphia and adjacent territory.

THE ANALYTICAL AND ASSAY practice and engineering offices of C. L. Constant, 42 Broadway, New York, have been taken over by a corporation called the C. L. Constant Company. The directors and officers of the company are C. L. Constant, E. M., Pres. and Treas.; Walter Harvey Weed, E. M., Vice-Pres.; C. L. Constant, Jr., E. M. Secy.; R. B. Lamb, E. M., and Frank H. Probert, E. M.

THE SHEET AND TIN-PLATE MILL of the new Aliquippa works of the Jones & Laughlin Steel Co., on the Ohio River below Pittsburg, will be served with power to operate a number of direct-current motors, through a rotary converter, from a 500-KW., 6,600-volt, three-phase, 60-cycle Westinghouse turbo-alternator. The fuel used in the boiler plant will be coke-oven gas, and the turbine will operate on a steam pressure of 150 lbs., exhausting into a vacuum of 28 ins.

THE NORTHERN CANADA SUPPLY CO., Ltd., of Cobalt, Ontario, has been appointed agent for the Sullivan Machinery Co., of Chicago, covering Cobalt and other northern Ontario mining territory. Mr. Robt. T. Walker has associated himself with the Northern Canada Supply Co. and will give his attention to the sales of the Sullivan Company's products. The agency of the Sullivan Co. at Rossland, B. C., has been placed in the hands of the Rossland Engineering Works. This firm will maintain a stock of Sullivan rock drills and hammer drills, also parts and supplies.

THE DAYTON GLOBE IRON WORKS CO. reports that it has closed an order with the Osceola Light & Power Co., of Reed City, Mich., for two horizontal turbine units, each consisting of two turbines connected to one shaft, and arranged for installation in an open concrete flume to operate under from 16 to 18-ft. head. The company has also received orders from the Menasha Paper Co., of Menasha, Wis., for two open-flume turbine units, to be installed in their mill at Ladysmith, Wis., under 17-ft. head; one of these units is a single 34-in. developing 150 HP. and the other a 30-in. New American turbine, developing 200 HP. Both units are horizontal type, and include extended shaft and equipment for belt drive.

THE ALLIS-CHALMERS CO., of Milwaukee, Wis., states that it has the contract for a pumping engine for the water-works at Wheeling, W. Va., which will be the largest municipal pumping engine in the world. It will have a capacity of 20,000,000 gallons per day, and will pump against a regular domestic water pressure of [illegible] lbs. It will be of the triple-expansion cr[illegible]-and-flywheel type, with a low-pressure c[illegible]der 110 ins. diameter and 6-ft. stroke, [illegible] two 20-ft. 50-ton flywheels. It has be[illegible] extensions were to be made [illegible] umored that Milwaukee plant, but the [illegible] year to the that this is not correct. A[illegible]ompany reports being made, however, to th[illegible] extension is cinnati, and the new equi[illegible]ant at Cin- installed; this will give empl[illegible]ut is being 1,000 additional men. [illegible]nt to about

AT YOKKAICHI, JAPAN, [illegible] electric-light company has installed a 750-[illegible] W. Westinghouse turbo-alternator [illegible] Miye Ken Plant, near Nagaya. The turb[illegible] is to operate at 200 lbs. steam pressu[illegible] exhausting into a vacuum of 27 ins. T[illegible] phase, 60-cycle current at 2,200 volts, [illegible] lighting and power purposes, will be supp[illegible] by the new generator, supplanting the old [illegible] reciprocating-engine-driven equipment which [illegible] to be taken out. Three 55-HP. Westinghou[illegible] gas engines have been installed by the [illegible]waka Coke Works, of Tokio, to operat[illegible] their coal-washing plant. These engine[illegible] will use as fuel the sulphur gas derived f[illegible] the coke ovens, having an average calo[illegible] value of 460 b. t. u. per cu. ft. This new equipment is additional to a pair of 11 [illegible] 12-in. two-cylinder Westinghouse gas engines driving a Westinghouse 125-volt direct current generator.

For other Proposal Advertisements see pages 51, 52, 53, 54, 55, of Advertisements and Construction News page 112.

WATER SUPPLY SYSTEM.

Sealed proposals for water supply system at the Great Meadow Prison, Comstock, N. Y., will be received by C. V. Collins, Superintendent of State Prisons, Capitol, Albany, N. Y., up to 12 o'clock noon on the 5th day of October, 1909, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of $1,500 and the contractor to whom the award is made will be required to furnish surety-company's bond in the sum of $15,000, within thirty days and in accordance with the terms of specification No. 1296. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposals obtained at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 22, 1909, sealed proposals will be received in this office until November 1, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduit and wiring) of the U. S. Post Office and Custom House building at Eagle Pass, Texas, in accordance with drawings and specifications, copies of which may be had at the office of the Custodian of the Site, at Eagle Pass, Texas, or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Situations Open

WANTED—Contractor's superintendent; experienced on sewers, roads, cement walks, etc. Address "C. B. 13," Engineering News, New York. 13-1t

WANTED—Experienced detailers and checkers for bridge and building work. Milwaukee location. State experience and salary expected. Address "D. B. 13," Engineering News, New York. 13-2t

WANTED—Several draftsmen for structural and ornamental iron work for buildings. Address, "E. B. 13," Engineering News, New York. 13-1t

Miscellaneous Wants

WANTED—To communicate with parties desiring a representative in rich mineral and agricultural districts to be opened by Southern Pacific R. R. in Tropic Territory, Mexico. Address "X. A. 13," Engineering News, New York. 13-1t

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